

## JOURNALS FROM WHICH ABSTRACTS ARE MADE.

The following is a list of the principal Journals from which abstracts are made (directly or indirectly) by the Bureau of Chemical Abstracts. Further information regarding any of these Journals may be obtained from the Secretary of the Bureau.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Abh. Bohm. Akad. .	Abhandlungen der Bohmischen Akademie.	Ann. Soc. Sci. Bruxelles	Annales de la Société Scientifique de Bruxelles.
Acta Bot. Fennica .	Acta Botanica Fennica.	Ann. sci. Univ. Jassy.	Annales scientifiques de l'Université de Jassy.
Acta Physicochim. U.R.S.S.	Acta Physicochimica U.R.S.S.	Apoth.-Ztg.	Apotheker-Zeitung.
Acta Phytochim.	Acta Phytochimica.	Arb. Biol. Reichanst.	Arbeiten der Biologisches Reichanstalt
Acta Sci. Fennicae .	Acta Societatis Scientiarum Fennicae.	Land- u. Forst-wirts.	Land- und Forstwirtschaft.
Agric. Eng.	Agricultural Engineering.	Arb. Gebiet. Physik, Math., Chem.	Arbeiten aus dem Gebiete der Physik, Mathematik und Chemie.
Agric. Gaz. New South Wales	Agricultural Gazette of New South Wales.	Arch. Biol.	Archives de Biologie.
Agric. Live-stock India	Agriculture and Live-stock in India.	Arch. Eisenhuttenw. .	Archiv. für das Eisenhüttenwesen.
Agric. Res. Inst., Pusa, Rep. (Bull.) .	Agricultural Research Institute, Pusa, Reports and Bulletins.	Arch. exp. Path. Pharm.	Archiv für experimentelle Pathologie und Pharmakologie.
Allgem. Oel- Fett-Ztg.	Allgemeine Oel- und Fett-Zeitung.	Arch. Farm. sperim.	Archivio di Farmacologia sperimentale e Scienze affini.
Allgem. Z. Bierbrau. .	Allgemeine Zeitschrift für Bierbrauerei und Malzfabrikation.	Arch. Gewerbehath. Gewerbehhyg.	Archiv für Gewerbehathologie und Gewerbehhygiene.
Amer. Dyestuff Rep.	American Dyestuff Reporter.	Arch. Int. Med.	Archives of Internal Medicine.
Amer. Inst. Min. Met. Eng. Publ. .	American Institute of Mining and Metallurgical Engineers Publication.	Arch. Ist. Biochim. Ital.	Archivio dello Istituto Biochimico Italiano.
Amer. J. Bot. .	American Journal of Botany.	Arch. Med. Pharm. milit.	Archives de Medicine et de Pharmacologie militaires.
Amer. J. Dis. Children	American Journal of Diseases of Children.	Arch. Mikrobiol.	Archiv für Mikrobiologie.
Amer. J. Pharm.	American Journal of Pharmacy.	Arch. Min. Soc. Sci. Varsovie	Archives de Mineralogie de la Société des Sciences de Varsovie (Archivum Mineralogiczne Towarzystwa Naukowego Warszawskiego).
Amer. J. Physiol.	American Journal of Physiology.	Arch. Neerland.	Archives Néerlandaises de sciences exactes et naturelles.
Amer. J. Publ. Health	American Journal of Public Health and the Nation's Health.	Arch. Neerland. Physiol.	Archives Néerlandaises de Physiologie de l'Homme et des Animaux.
Amer. J. Sci. .	American Journal of Science.	Arch. Pflanzenbau	Archiv für Pflanzenbau.
Amer. Min.	American Mineralogist.	Arch. Pharm. .	Archiv der Pharmazie.
Amer. Ink Maker	American Ink Maker.	Arch. Protistenk.	Archiv für Protistenkunde.
Amer. Paint J.	American Paint Journal.	Arch. Sci. phys. nat. .	Archives des Sciences physique et naturelles.
Amer. Paint. & Var. Manuf. Assoc. Circ.	American Paint and Varnish Manufacturers' Association Circulars.	Arch. Suikerind. Ned.-Indie .	Archief voor de Suikerindustrie in Nederlandsch-Indie.
Anal. Asoc. Quím. Argentina	Anales de la Asociación Química Argentina.	Arch. Tierernahrung u. Tierzucht	Archiv für Tierernahrung und Tierzucht.
Anal. Fís. Quím.	Anales de la Sociedad Española de Física y Química.	Arh. Hemiju .	Arhiv za Hemiju i Farmaciju.
Anal. Inst. invest. cient. teen. .	Anales del Instituto de investigaciones científicas y tecnológicas.	Arizona Agric. Exp. Sta. Bull.	Arizona Agricultural Experiment Station Bulletin.
Analyst .	Analyst.	Arkiv Kemi, Min., Geol. .	Arkiv for Kemi, Mineralogi och Geologi.
Anat. Rec.	Anatomical Record.	Arxius	Arxius de l'Escola Superior d'Agricultura, Catalunya.
Angew. Bot.	Angewandte Botanik.	Astrophys. J. .	Astrophysics Journal.
Angew. Chem. .	Angewandte Chemie (changed from Z. angew. Chem. in 1932).	Atti R. Accad. Lincei	Atti della Reale Accademia Nazionale dei Lincei.
Anilinokras. Prom. .	Anilinokrasotschnaja Promischlennosti.	Atti R. Accad. Sci. Torino .	Atti della Reale Accademia delle Scienze di Torino.
Ann. Acad. Brasil Sci.	Annals da Academia Brasileira de Ciencias.	Austral. J. Exp. Biol.	Australian Journal of Experimental Biology and Medicine.
Annalen .	Justus Liebig's Annalen der Chemie.	B.P.	British Patent.
Ann. agron.	Annales agronomique.	Ber.	Berichte der deutschen chemischen Gesellschaft.
Ann. Appl. Biol.	Annals of Applied Biology.	Ber. deut. bot. Ges. .	Berichte der deutschen botanischen Gesellschaft.
Ann. Bot.	Annals of Botany.	Ber. Ges. Kohlentech.	Berichte der Gesellschaft für Kohlentechnik.
Ann. di Bot.	Annali di Botanica.	Ber. Ohara Inst.	Berichte des Ohara Instituts für landwirtschafliche Forschungen.
Annali Chim. Appl. .	Annali di Chimica Applicata.		
Ann. Chim.	Annales de Chimie.		
Ann. Chim. Analyt. .	Annales de Chimie Analytique et de Chimie Appliquée.		
Ann. Falsif.	Annales des Falsifications.		
Ann. Guébbard-Séverine	Annales Guebbard-Severine.		
Ann. Inst. Anal Phys. Chim.	Annales de l'Institut d'Analyse Physico-chimique.		
Ann. Inst Pasteur	Annales de l'Institut Pasteur.		
Ann. Inst. Platine	Annales de l'Institut du Platine et des autres Metaux Precieux.		
Ann. Physik	Annalen der Physik.		
Ann. Physique	Annales de Physique.		
Ann. R. Staz. Chim. Agrar. Sperim.	Annali della R. Stazione Chimico Agraria Sperimentale di Roma.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Ber. Sachs. Akad. Wiss.	Berichte über die Verhandlungen der Sachsischen Akademie der Wissenschaften zu Leipzig.	Bull. Imp. Inst.	Bulletin of the Imperial Institute.
Ber. Ukrain. Wiss. Forach. physikal. Chem.	Berichte des Ukrainischen Wissenschaftlichen Forschungsinstituts für physikalische Chemie.	Bull. Inst. Min. Met.	Bulletin of the Institution of Mining and Metallurgy.
Berlin. Klin. Woch.	Berliner Klinische Wochenschrift.	Bull. Inst. Phys. Chem. Res., Japan	Bulletin of the Institute of Physical and Chemical Research, Japan (Rikagaku Kenkyujo Iho).
Bied. Zentr.	Biedermann's Zentralblatt.	Bull. Inst. Pin	Bulletin de l'Institut du Pin.
Bied. Zentr. (Tierernähr.)	Biedermann's Zentralblatt (Tierernährung).	Bull. Johns Hopkins Hosp.	Bulletin of the Johns Hopkins Hospital.
Biochem. J.	Biochemical Journal.	Bull. Math. Phys. Bucarest	Bulletin de Mathématiques et de Physique pure et appliquées de l'Ecole Polytechnique "Roi Carol II" Bucarest.
Biochem. Z.	Biochemische Zeitschrift.	Bull. Mat. Grasses	Bulletin des Matieres Grasses.
Bol. Acad. Nac. Ciencias, Cordoba	Boletín de la Academia Nacional de Ciencias, Cordoba.	Bull. Photogrammetrie	Bulletin de Photogrammétrie.
Bol. Soc. Quim. Peru	Boletín de la Sociedad Química del Peru.	Bull. School Mines and Met., Univ. Missouri	Bulletin of the School of Mines and Metallurgy, University of Missouri.
Boll. Chim. farm.	Bollettino Chimico-Farmaceutico.	Bull. Sci. Pharmacol.	Bulletin des Sciences Pharmacologiques.
Boll. Soc. Geol. Ital.	Bollettino della Società Geologica Italiana.	Bull. Sericult., Japan	Bulletin of Sericulture and Silk Industry, Japan.
Boll. Soc. Ital. Biol. sperim.	Bollettino della Società Italiana di Biologia sperimentale.	Bull. Soc. chim.	Bulletin de la Société chimique de France.
Boll. Soc. Med.-Chirurg.	Bollettino della Società Medico-Chirurgica, Pavia.	Bull. Soc. chim. Belg.	Bulletin de la Société chimique de Belgique.
Boll. Staz. Sperim. Ind. Carta Fibre Tess.	Bollettino del Reparto Fibre Tessili Vegetali della R. Stazione Sperimentale per le Industrie della Carta e delle Fibre Tessili Vegetali.	Bull. Soc. Chim. biol.	Bulletin de la Société de Chimie biologique.
Boll. Uff. Staz. Sperim. Ind. Essenzo	Bollettino Ufficiale della R. Stazione Sperimentale per l'Industria delle Essenze e dei Derivati dagli Agrumi in Reggio Calabria.	Bull. Soc. Chim. Yougoslav.	Bulletin de la Société Chimique du Royaume de Yougoslavie.
Boll. Uff. Staz. Sperim. Ind. Pelli	R. Stazione Sperimentale per l'Industria delle Pelli e delle materie concianti, Bollettino Ufficiale.	Bull. Soc. d'Encour.	Bulletin de la Société d'Encouragement pour l'Industrie Nationale.
Bot. Archiv	Botanisches Archiv.	Bull. Soc. Franç. Min.	Bulletin de la Société Française de Mineralogie.
Bot. Gaz.	Botanical Gazette.	Bull. Soc. Franç. Phot.	Bulletin de la Société Française de Photographie.
Brass. Malt.	Brasserie et Malterie.	Bull. Soc. Ind. Mulhouse	Bulletin de la Société Industrielle de Mulhouse.
Brau- u. Malzind.	Brau- u. Malzindustrie.	Bur. Stand. J. Res.	Bureau of Standards Journal of Research (now changed to Journal of Research of the National Bureau of Standards).
Braunkohle	Braunkohle.	Canada Dept. Mines Publ.	Canada Department of Mines Publications.
Brennstoff-Chem.	Brennstoff-Chemie.	Canad. Chem. Met.	Canadian Chemistry and Metallurgy.
Browsers' J.	Brewers' Journal.	Canad. J. Res.	Canadian Journal of Research.
Brit. Guiana Dept. Agric. Bull.	British Guiana Department of Agriculture Bulletin.	Caoutchouc et Gutta-Percha	Le Caoutchouc et le Gutta-Percha.
Brit. J. Phot.	British Journal of Photography	Cellulosechem.	Cellulosechemie.
Brit. J. Phys. Med.	British Journal of Physical Medicine.	Cement	Cement and Cement Manufacture.
Brit. Med. J.	British Medical Journal.	Cereal Chem.	Cereal Chemistry.
Brit. Plastics	British Plastics and Moulded Products Trader.	Ch. Abs.	Chemical Abstracts.
Bul. Chim.	Buletinul Chimie.	Chem. Age	Chemical Age.
Bul. Chim. Soc. Romane	Buletinul de Chimie pura si aplicata al Societatii Romane de Chimie.	Chem. App.	Chemische Apparatur.
Bul. Soc. Chim. Romania	Buletinul Societatii de Chimie din Romania.	Chem. Eng. Min. Rev.	Chemical Engineering and Mining Review.
Bul. Soc. Fiz. Romania	Buletinul Bilunar al Societatii de Fizica din Romania.	Chem. Erde	Chemie der Erde.
Bul. Soc. Romane Stiin.	Buletinul Societatii Romane de Stiinte.	Chem. Fabr.	Die Chemische Fabrik.
Bull. Acad. Med. Roumanie	Bulletin de l'Academie de Medecine de Roumanie.	Chem. and Ind.	Chemistry and Industry.
Bull. Acad. Polonaise	Bulletin Internationale de l'Académie Polonaise des Sciences et des Lettres.	Chem. Ind.	Chemische Industrie.
Bull. Acad. roy. Belg.	Académie royale de Belgique—Bulletin de la Classe des Sciences.	Chem. Listy	Chemické Listy pro Vědu a Průmysl. Organ de la "Česka chemická Společnost pro Vědu a Průmysl."
Bull. Acad. Sci. Agra & Oudh	Bulletin of the Academy of Sciences of Agra and Oudh.	Chem. Met. Eng.	Chemical and Metallurgical Engineering.
Bull. Acad. Sci. U.R.S.S.	Bulletin de l'Academie des Sciences de l'Union des Républiques Socialistes.	Chem. Social. Agric.	Chemisation of Socialistic Agriculture (U.S.S.R.).
Bull. Acad. Sci. Roumaine	Bulletin de la Section Scientifique de l'Académie Roumaine.	Chem. Trade J.	Chemical Trade Journal.
Bull. Agric. Chem. Soc. Japan	Bulletin of the Agricultural Chemical Society of Japan.	Chem. Weekblad	Chemisch Weekblad.
Bull. Amer. Ceram. Soc.	Bulletin of the American Ceramic Society.	Chem.-Ztg.	Chemiker-Zeitung.
Bull. Assoc. Chim. Sucr.	Bulletin de l'Association des Chimistes de Sucrerie et de Distillerie.	Chem. Zentr.	Chemisches Zentralblatt.
Bull. Chem. Soc. Japan	Bulletin of the Chemical Society of Japan.	Cheshunt Agric. Exp. Sta. Ann. Rep.	Cheshunt Agricultural Experiment Station Annual Reports.
Bull. Entomol. Res.	Bulletin of Entomological Research.	Chim. e l'Ind.	La Chimica e l'Industria.
Bull. Forest Exp. Stat. Meguro	Bulletin of the Forest Experiment Station, Meguro, Tokyo.	Chim. et Ind.	Chimie et Industrie.
Bull. Geol. Survey, U.S.A.	Bulletin of the U.S. Geological Survey.	Chinese Med. J.	Chinese Medical Journal.
		Chinese J. Physics	Chinese Journal of Physics.
		Chinese J. Physiol.	Chinese Journal of Physiology.
		Coll. Czech. Chem. Comm.	Collection of Czechoslovak Chemical Communications.
		Collegium	Collegium.

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Colorado Agric. Exp. Sta. Bull.	Colorado Agricultural Experiment Station Bulletin.	Indian J. Agric. Sci.	Indian Journal of Agricultural Science.
Compt. rend.	Comptes rendus hebdomadaires des Séances de l'Académie des Sciences.	Indian J. Med. Res.	Indian Journal of Medical Research.
Compt. rend. Acad. Agric. France	Comptes rendus hebdomadaires des Séances de l'Académie d'Agriculture de France.	Indian J. Physics	Indian Journal of Physics.
Compt. rend. Acad. Sci. U.R.S.S.	Comptes rendus de l'Académie des Sciences de l'U.R.S.S.	Indian Lac Res. Inst. Bull.	Indian Lac Research Institute Bulletin.
Compt. rend. Soc. Biol.	Comptes rendus des Séances de la Société de Biologie.	India-rubber J.	India-rubber Journal.
Compt. rend. Trav. Lab. Carlsberg	Comptes rendus des Travaux du Laboratoire Carlsberg.	Ind. Chem.	Industrial Chemist.
Contr. Boyce Thompson Inst.	Contributions from Boyce Thompson Institute.	Ind. Eng. Chem.	Industrial and Engineering Chemistry.
Cornell Univ. Agric. Exp. Sta. Bull.	Cornell University Agricultural Experiment Station Bulletin.	Ind. Eng. Chem. (Anal.)	Industrial and Engineering Chemistry, Analytical Edition.
Current Sci.	Current Science.	Int. Rev. Agric.	International Review of Agriculture.
Dansk Tidsskr. Farm.	Dansk Tidsskrift for Farmaci.	Int. Sugar J.	International Sugar Journal.
Delaware Agric. Exp. Sta. Bull.	Delaware Agricultural Experiment Station Bulletin.	Iron Steel Inst. Carnegie Schol. Mem.	Iron and Steel Institute, Carnegie Scholarship Memoirs.
Dept. Chem. S. Australia, Bull.	Department of Chemistry, South Australia, Bulletins.	Izvestia Teplotekh. Inst. (Moscow)	Izvestia Teplotekhnicheskogo Instituta (Moscow).
Deut. med. Woch.	Deutsche medizinische Wochenschrift.	J.C.S.	Journal of the Chemical Society.
East Malling Res. Sta., Ann. Repts., etc.	East Malling Research Station, Annual Reports, etc.	Jahrb. geol. Reichsanst.	Jahrbuch der geologischen Reichsanstalt.
Ecology	Ecology.	Jahrb. Min.	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie.
Econ. Geol.	Economic Geology.	Jahrb. Min. Beil.-Bd.	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, Beilage-Band.
Econ. Proc. Roy. Dubl. Soc.	Economic Proceedings of the Royal Dublin Society.	Jahrb. Radioaktiv.	Jahrbuch der Radioaktivität und Elektronik.
Empire J. Exp. Agric.	Empire Journal of Experimental Agriculture.	Jahrb. wiss. Bot.	Jahrbuch für wissenschaftliche Botanik.
Endocrinol.	Endocrinology.	Jahresber. Ges. vaterl. Kultur	Jahresbericht der schlesischen Gesellschaft für vaterländische Kultur.
Engineer.	Engineering.	Japan. J. Med. Sci.	Japanese Journal of Medical Sciences.
Engineering	Engineering.	Japan. J. Physics.	Japanese Journal of Physics.
Eng. and Min. J.	Engineering and Mining Journal.	Japan Nickel Rev.	Japan Nickel Review.
Eng. News-Rec.	Engineering News-Record.	Jernk. Ann.	Jern-kontorets Annaler.
Ernähr. Pflanze	Ernährung der Pflanze.	J. Agric. Chem. Soc. Japan	Journal of the Agricultural Chemical Society of Japan.
F.P.	French Patent.	J. Agric. Res.	Journal of Agricultural Research.
Facts about Sugar	Facts about Sugar.	J. Agric. Sci.	Journal of Agricultural Science.
Farbe u. Lack	Farbe und Lack.	J. Amer. Ceram. Soc.	Journal of the American Ceramic Society.
Farben-Chem.	Farben-Chemiker.	J. Amer. Chem. Soc.	Journal of the American Chemical Society.
Farben-Ztg.	Farben-Zeitung.	J. Amer. Leather Chem. Assoc.	Journal of the American Leather Chemists' Association.
Fermentforsch.	Fermentforschung.	J. Amer. Med. Assoc.	Journal of the American Medical Association.
Fettchem. Umschau.	Fettchemische Umschau.	J. Amer. Pharm. Assoc.	Journal of the American Pharmaceutical Association.
Feuerfest	Feuerfest.	J. Amer. Soc. Agron.	Journal of the American Society of Agronomy.
Feuerungstechnik	Feuerungstechnik.	J. Amer. Soc. Mech. Eng.	Journal of the American Society of Mechanical Engineers.
Finska Kem. Medd.	Finska Kemistsamfundets Meddelanden (Suomen Kemistiseuran Tiedonantoja).	J. Amer. Water Works Assoc.	Journal of the American Water Works Association.
Florida Agric. Exp. Sta. Bull.	Florida Agricultural Experiment Station Bulletin.	J. Annamalai Univ.	Journal of the Annamalai University.
Food	Food.	J. Appl. Chem. Russia	Journal of Applied Chemistry, Russia.
Food Manuf.	Food Manufacture.	J. Assoc. Off. Agric. Chem.	Journal of the Association of Official Agricultural Chemists.
Forstarchiv	Forstarchiv.	J. Austral. Inst. Agric. Sci.	Journal of the Australian Institute of Agricultural Science.
Foundry Trade J.	Foundry Trade Journal.	J. Bact.	Journal of Bacteriology.
Fruit Prod. J.	Fruit Products Journal.	J. Biochem. Japan	Journal of Biochemistry, Japan.
Fuel	Fuel in Science and Practice.	J. Biol. Chem.	Journal of Biological Chemistry.
Fuel Econ.	Fuel Economist.	J. Brit. Wood Pres. Assoc.	Journal of the British Wood Preserving Association.
Fuel Econ. Rev.	Fuel Economy Review.	J. Canad. Min. Inst.	Journal of the Canadian Mining Institute.
G.P.	German Patent.	J. Cancer Res. Comm. Sydney	Journal of the Cancer Research Committee of the University of Sydney.
Gas J.	Gas Journal.	J. Cell. Comp. Physiol.	Journal of Cellular and Comparative Physiology.
Gas- u. Wasserfach	Gas- und Wasserfach.	J. Cellulose Inst. Tokyo	Cellulose Industry, Journal of the Cellulose Institute, Tokyo.
Gas World	Gas World.	J. Chem. Educ.	Journal of Chemical Education.
Gazzetta	Gazzetta chimica italiana.	J. Chem. Eng. China	Journal of Chemical Engineering, China.
Geol. Mag.	Geological Magazine.	J. Chem. Ind. Russ.	Journal of Chemical Industry, Russia.
Georgia Agric. Exp. Sta. Bull.	Georgia Agricultural Experiment Station Bulletin.	J. Chem. Met. Soc. S. Africa	Journal of the Chemical, Metallurgical, and Mining Society of South Africa.
Giorn. Chim. Ind. Appl.	Giornale di Chimica Industriale ed Applicata (now merged with L'Industria Chimica under the title La Chimica e l'Industria).	J. Chem. Physics	Journal of Chemical Physics.
Gummi-Ztg.	Gummi-Zeitung.	J. Chem. Soc. Japan	Journal of the Chemical Society of Japan. (Nippon Kwagaku Kwai Shi.)
Hawaii Agric. Exp. Stat. Bull.	Hawaii Agricultural Experiment Station Bulletins.	J. Chim. phys.	Journal de Chimie physique.
Helv. Chim. Acta	Helvetica Chimica Acta.		
Hilgardia	Hilgardia.		
Imp. Bur. Soil Sci. Tech. Comm.	Imperial Bureau of Soil Science, Technical Communication.		

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J. Chinese Chem. Soc.	Journal of the Chinese Chemical Society.	J. Proc. Austral. Chem. Inst.	Journal and Proceedings of the Australian Chemical Institute.
J. Coll. Agric. Hokkaido	Journal of the College of Agriculture, Hokkaido Imperial University, Japan.	J. Proc. Roy. Soc. New South Wales	Journal and Proceedings of the Royal Society of New South Wales.
J. Coll. Agric. Tokyo	Journal of the College of Agriculture, Imperial University of Tokyo, Japan.	J. Res. Assoc. Brit. Rubber Manufs.	Journal of the Research Association of British Rubber Manufacturers.
J. Coll. Eng. Tokyo	Journal of the College of Engineering, Imperial University of Tokyo.	J. Res. Nat. Bur. Stand.	Journal of Research of the National Bureau of Standards.
J. Coll. Sci. Tokyo	Journal of the College of Science, Imperial University of Tokyo.	J. Roy. Agric. Soc.	Journal of the Royal Agricultural Society.
J. Coun. Sci. Ind. Res. Australia	Journal of the Council of Scientific and Industrial Research of Australia.	J. Roy. Hort. Soc.	Journal of the Royal Horticultural Society.
J. Dairy Res.	Journal of Dairy Research.	J. Roy. Microscop. Soc.	Journal of the Royal Microscopical Society.
J. Dairy Sci.	Journal of Dairy Science.	J. Roy. Soc. West Australia	Journal of the Royal Society of West Australia.
J. Dept. Agric. Kyushu	Journal of the Department of Agriculture, Kyushu Imperial University.	J. Roy. Tech. Coll.	Journal of the Royal Technical College (Glasgow).
J. Dept. Agric. S. Australia	Journal of the Department of Agriculture, South Australia.	J. Rubber Res. Inst. Malaya	Journal of the Rubber Research Institute of Malaya.
J. Dept. Agric. Victoria	Journal of the Department of Agriculture, Victoria.	J. Sci. Hiroshima Univ.	Journal of Science of the Hiroshima University.
J. Dept. Agric. W. Australia	Journal of the Department of Agriculture, Western Australia.	J. Sci. Instr.	Journal of Scientific Instruments.
J. Econ. Entomol.	Journal of Economic Entomology.	J. Sci. Tech. India	Journal of Science and Technology, India.
J. Egypt. Med. Assoc.	Journal of the Egyptian Medical Association.	J. Scot. Met. Soc.	Journal of the Scottish Meteorological Society.
J. Electrodep. Tech. Soc.	Journal of the Electrodepositors Technical Society.	J. Soc. Arts	Journal of the Royal Society of Arts.
J. Exp. Med.	Journal of Experimental Medicine.	J.S.C.I.	Journal of the Society of Chemical Industry.
J. Franklin Inst.	Journal of the Franklin Institute.	J. Soc. Chem. Ind. Japan	Journal of the Society of Chemical Industry, Japan. (Kōgyō Kwagaku Zasshi.)
J. Fuel Soc. Japan	Journal of the Fuel Society of Japan.	J. Soc. Dyers and Col.	Journal of the Society of Dyers and Colourists.
J. Gen. Chem. Russ.	Journal of General Chemistry, Russia (formerly J. Russ. Phys. Chem. Soc.).	J. Soc. Glass Tech.	Journal of the Society of Glass Technology.
J. Gen. Physiol.	Journal of General Physiology.	J. Soc. Leather Trades' Chem.	Journal of the International Society of Leather Trades' Chemists.
J. Geol.	Journal of Geology.	J. S. African Chem. Inst.	Journal of the South African Chemical Institute.
J. Geol. Soc. Tokyo	Chishitsugaku Zasshi (Journal of the Geological Society of Tokyo).	J. South-East. Agric. Coll.	Journal of the South-Eastern Agricultural College, Wye, Kent.
J. Hygiene	Journal of Hygiene.	J. State Med.	Journal of State Medicine.
J. Indian Chem. Soc.	Journal of the Indian Chemical Society.	J. Textile Inst.	Journal of the Textile Institute.
J. Indian Inst. Sci.	Journal of the Indian Institute of Science.	J. Univ. Bombay	Journal of the University of Bombay.
J. Ind. Hyg.	Journal of Industrial Hygiene and Toxicology.	J. Usines Gaz	Journal des Usines à Gaz.
J. Inst. Brew.	Journal of the Institute of Brewing.	J. Washington Acad. Sci.	Journal of the Washington Academy of Sciences.
J. Inst. Electr. Eng.	Journal of the Institution of Electrical Engineers.	J. West Scotland Iron Steel Inst.	Journal of the West of Scotland Iron and Steel Institute.
J. Inst. Fuel	Journal of the Institute of Fuel.	Kali	Kali.
J. Inst. Metals	Journal of the Institute of Metals.	Kautschuk	Kautschuk.
J. Inst. Petroleum Tech.	Journal of the Institution of Petroleum Technologists.	Keijo J. Med.	Keijo Journal of Medicine.
J. Inst. Sewage Purif.	Journal of the Institute of Sewage Purification.	K. Svenska Vet. Akad. Handl.	Kongliga Svenska Vetenskaps Akademiens Handlingar.
J. Iron and Steel Inst.	Journal of the Iron and Steel Institute.	Kentucky Agric. Exp. Stat. Bull.	Kentucky Agricultural Experimental Station, Bulletin.
J. Jap. Ceram. Assoc.	Journal of the Japanese Ceramic Association.	Keram. Rundsch.	Keramisch Rundschau.
J. Landw.	Journal für Landwirtschaft.	Kolloid-Beih.	Kolloid-Beihefte.
J. Marine Biol. Assoc.	Journal of the Marine Biological Association of the United Kingdom.	Kolloid-Z.	Kolloid-Zeitschrift.
J. Med. Res.	Journal of Medical Research.	Kunststoffe	Kunststoffe.
J. Min. Agric.	Journal of the Ministry of Agriculture.	Lancet	The Lancet.
J. New England Water Works Assoc.	Journal of the New England Water Works Association.	Landw. Jahrb.	Landwirtschaftliche Jahrbücher.
J. Nutrition	Journal of Nutrition.	Landw. Versuchs-Stat.	Die landwirtschaftlichen Versuchs-Stationen.
J. Oil Col. Chem. Assoc.	Journal of the Oil and Colour Chemists' Association.	Latvij. Univ. Raksti	Latvijas Universitātes Raksti, Kimijas Fakultātes Serija.
J. Opt. Soc. Amer.	Journal of the Optical Society of America.	L'Ind. Chimica	L'Industria Chimica (now merged with Giorn. Chim. Ind. Appl. as La Chimica e l'Industria).
J. Path. Bact.	Journal of Pathology and Bacteriology.	Louisiana Planter	Louisiana Planter.
J. Pharm. Chim.	Journal de Pharmacie et de Chimie.	Malay. Agric. J.	Malayan Agricultural Journal.
J. Pharm. Exp. Ther.	Journal of Pharmacology and Experimental Therapeutics.	Mass. Agric. Exp. Sta. Bull.	Massachusetts Agricultural Experiment Station Bulletin.
J. Pharm. Soc. Japan	Journal of the Pharmaceutical Society of Japan. (Yakugakuzasshi.)	Materie Plast.	Materie Plastiche.
J. Physical Chem.	Journal of Physical Chemistry.	Medd. K. Vetenskaps-akad. Nobel-Inst.	Meddelanden från Kongl. Vetenskaps-akademiens Nobel-Institut.
J. Physiol.	Journal of Physiology.	Medd. on Gronland	Meddelser on Gronland.
J. Physiol. Path. gén.	Journal de Physiologie et de Pathologie générale.	Med. Genees. Lab. Weltevreden	Mededeelingen uit het Geneeskundig Laboratorium te Weltevreden.
J. Phys. Radium	Journal de Physique et le Radium.	Med. Doświad.	Medycyna Doświadczalna i Społeczna.
J. Pomology	Journal of Pomology and Horticultural Science.		
J. pr. Chem.	Journal für praktische Chemie.		
J. Proc. Asiatic Soc. Bengal	Journal and Proceedings of the Asiatic Society of Bengal.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Melliand Text. Month.	Melliand Textile Monthly (now Rayon and Melliand Textile Monthly).	New York (Geneva) Agric. Exp. Sta. Bull.	New York (Geneva) Agricultural Experiment Station Bulletin.
Mem. Accad. Lincei	Memorie della Reale Accademia Nazionale dei Lincei.	New Zealand Dominion Laby. Rept.	New Zealand Dominion Laboratory Reports.
Mem. Accad. Sci. Torino	Memorie della Reale Accademia delle Scienze di Torino.	New Zealand J. Sci. Tech.	New Zealand Journal of Science and Technology.
Mem. Coll. Agric. Kyoto	Memoirs of the College of Agriculture, Kyoto Imperial University.	Nova Acta Soc. Sci.	Nova Acta Regiae Societatis Scientiarum Upsaliensis.
Mem. Coll. Sci. Kyoto	Memoirs of the College of Science, Kyoto Imperial University.	Nutr. Abs.	Nutrition Abstracts and Reviews.
Mem. Dept. Agric. India	Memoirs of the Department of Agriculture in India.	Öfvers. Finska Vet.-Soc.	Öfversigt af Finska Vetenskaps-Societätens Förhandlingar, Helsingfors.
Mem. Inst. Chem. All-Ukrain. Acad. Sci.	Memoirs of the Institute of Chemistry, All-Ukrainian Academy of Sciences.	Oel u. Kohle	Oel und Kohle.
Mem. Manchester Phil. Soc.	Memoirs and Proceedings of the Manchester Literary and Philosophical Society.	Oesterr. Chem.-Ztg.	Oesterreichische Chemiker-Zeitung.
Mém. Poudres	Memorial des Poudres.	Off. Digest.	Official Digest of the Federation of Paint and Varnish Production Clubs.
Mém. Soc. Ing. Civ. France	Mémoires et Compte rendu des Travaux de la Société des Ingenieurs Civils de France.	Ohio Agric. Exp. Sta. Bull.	Ohio Agricultural Experiment Station Bulletin.
Metal Ind.	Metal Industry.	Oil and Soap	Oil and Soap.
Metal Progr.	Metal Progress.	Oklahoma Agric. Exp. Sta. Bull.	Oklahoma Agricultural Experiment Station Bulletin.
Metall u. Erz	Metall und Erz.	Oversigt Danske Vid. Selsk.	Oversigt over det Kongelige Danske Videnskabernes Selskabs Forhandlingar.
Metallurgia	Metallurgia.	Paint, Oil, and Chem. Rev.	Paint, Oil, and Chemical Review.
Met. & Alloys	Metals and Alloys.	Paint Tech.	Paint Technology.
Metals Tech.	Metals Technology.	Paint and Var. Prod. Man.	Paint and Varnish Production Manager.
Metrop. Water Bd. Rep.	Metropolitan Water Board Reports.	Paper	Paper.
Mich. Agric. Exp. Sta. Bull.	Michigan Agricultural Experiment Station Bulletin.	Paper-Maker	Paper-Maker and British Paper Trade Journal.
Mikrochem.	Mikrochemie.	Paper Trade J.	Paper Trade Journal.
Milch. Forsch.	Milchwirtschaftliches Forschungen.	Papier-Fabr.	Papier-Fabrikant.
Milch. Zentr.	Milchwirtschaftliches Zentralblatt.	Pedology	Pedology.
Min. Mag.	Mineralogical Magazine and Journal of the Mineralogical Society.	Peint., Pig., Ver.	Peinture, Pigment, Vernis.
Min. & Met.	Mining and Metallurgy.	Perf. & Essent. Oil Rec.	Perfumery and Essential Oil Record.
Missouri Agric. Exp. Sta. Res. Bull.	Missouri Agricultural Experiment Station Research Bulletin.	Petroleum	Petroleum (German).
Mitt. Kohlenforschungsinst. Prag	Mitteilungen des Kohlenforschungsinstituts in Prag.	Pflüger's Archiv	Archiv für die gesamte Physiologie des Menschen und der Tiere.
Mitt. Lebensm. Hyg.	Mitteilungen aus dem Gebiete der Lebensmitteluntersuchungen und Hygiene.	Pharm. J.	Pharmaceutical Journal.
Mitt. Materialprüf.	Mitteilungen aus dem Materialprüfungsammt zu Gross-Lichterfelde West.	Pharm. Weekblad	Pharmaceutisch Weekblad.
Mitt. med. Ges. Tokyo	Mitteilungen der medizinischen Gesellschaft zu Tokyo.	Pharm. Ztg.	Pharmazeutische Zeitung.
Mitt. Naturforsch. Ges. Halle	Mitteilungen der Naturforschenden Gesellschaft zu Halle.	Pharm. Zentr.	Pharmazeutische Zentralhalle.
Mitt. Path. Inst. K. Univ. Japan	Mitteilungen aus dem pathologischen Institut der Kaiserlichen Universität zu Sendai, Japan.	Philippine J. Sci.	Philippine Journal of Science.
Mitt. Textilforsch. Krefeld	Mitteilungen der Textilforschungsanstalt Krefeld e.V.	Phil. Mag.	Philosophical Magazine (The London, Edinburgh, and Dublin).
Monatsh.	Monatshefte für Chemie und verwandte Teile anderer Wissenschaften.	Phil. Trans.	Philosophical Transactions of the Royal Society of London.
Montana Agric. Exp. Sta. Bull.	Montana Agricultural Experiment Station Bulletin.	Phot. Ind.	Photographische Industrie.
Month. J. Inst. Metals	Monthly Journal of the Institute of Metals.	Phot. J.	Photographic Journal.
Month. Not. Roy. Astr. Soc.	Monthly Notices of the Royal Astronomical Society, London.	Phot. Kor.	Photographische Korrespondenz.
Mühlenlab.	Das Mühlenlaboratorium.	Physica	Physica.
Münch. med. Woch.	Munchener medizinische Wochenschrift.	Physical Rev.	Physical Review.
Nachr. Ges. Wiss. Göttingen	Nachrichten von der Gesellschaft der Wissenschaften zu Göttingen.	Physikal. Z.	Physikalische Zeitschrift.
Nat. Paint Var. Assoc. Circ.	National Paint, Varnish, and Lacquer Association Circular.	Physikal. Z. Soviet-union	Physikalische Zeitschrift der Soviet-union.
Nature	Nature.	Phytopath.	Phytopathology.
Natuurwetensch. Tijds.	Natuurwetenschappelijk Tijdschrift.	Phytopath. Z.	Phytopathologische Zeitschrift.
Naturwiss.	Die Naturwissenschaften.	Plant Physiol.	Plant Physiology.
New Hamps. Agric. Exp. Sta. Bull.	New Hampshire Agricultural Experiment Station Bulletin.	Planta (Z. wiss. Biol.)	Planta (Zeitschrift für wissenschaftliche Biologie).
New Jersey Agric. Exp. Sta. Bull.	New Jersey Agricultural Experiment Station Bulletin.	Plast. Massi	Plastische Massi.
New Phytol.	New Phytologist.	Poultry Sci.	Poultry Science.
New York Agr. Expt. Sta. Bull.	New York State Agricultural Experiment Station Bulletins.	Proc. Acad. Sci. Agra and Oudh	Proceedings of the Academy of Sciences of the United Provinces of Agra and Oudh, India.
		Proc. Amer. Acad. Arts Sci.	Proceedings of the American Academy of Arts and Sciences.
		Proc. Amer. Phil. Soc.	Proceedings of the American Philosophical Society.
		Proc. Amer. Physiol. Soc.	Proceedings of the American Physiological Society.
		Proc. Amer. Soc. Biol. Chem.	Proceedings of the American Society of Biological Chemists.
		Proc. Amer. Soc. Civ. Eng.	Proceedings of the American Society of Civil Engineers.
		Proc. Amer. Soc. Testing Materials	Proceedings of the American Society for Testing Materials.
		Proc. Austral. Inst. Min. Met.	Proceedings of the Australasian Institute of Mining and Metallurgy.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Proc. Camb. Phil. Soc.	Proceedings of the Cambridge Philosophical Society.	Rend. Ist. Lomb. Sci. Lett.	Rendiconti dell' Reale Istituto Lombardo di Scienze e Lettere.
Proc. Durham Phil. Soc.	Proceedings of the University of Durham Philosophical Society.	Rensselaer Polyt. Inst. Bull.	Rensselaer Polytechnic Institute Bulletin.
Proc. Eng. Soc. W. Pa.	Proceedings of the Engineers' Society of Western Pennsylvania.	Rep. Aust. Assoc. Sci.	Report of the Australian Association for the Advancement of Science.
Proc. Imp. Acad. Tokyo	Proceedings of the Imperial Academy (Tokyo).	Rep. Brit. Assoc.	Report of the British Association for the Advancement of Science.
Proc. Indian Acad. Sci.	Proceedings of the Indian Academy of Sciences.	Rev. Aluminium	Revue de l'Aluminium.
Proc. Inst. Civ. Eng.	Proceedings of the Institution of Civil Engineers.	Rev. Chim. pure appl.	Revista de Chimica pura o applicada, Órgao de Sociedade Portuguesa de Quimica o Fisica.
Proc. Inst. Mech. Eng.	Proceedings of the Institution of Mechanical Engineers.	Rev. Fac. Quím. Ind. Agric.	Revista de la Facultad de Química Industrial y Agrícola.
Proc. Internat. Cong. Soil Sci.	Proceedings of the International Congress of Soil Science.	Rev. Gén. Mat. Col.	Revue Générale des Matières Colorantes.
Proc. Internat. Soc. Soil Sci.	Proceedings of the International Society of Soil Science.	Rev. Mét.	Revue de Métallurgie.
Proc. K. Akad. Wetensch. Amsterdam	Koninklijke Akademie van Wetenschappen te Amsterdam. Proceedings (English version).	Rev. Sci. Instr.	Review of Scientific Instruments.
Proc. Leningrad Dept. Inst. Fert.	Proceedings of the Leningrad Departmental Institute of Fertilisers.	Rocz. Chem.	Roczniki Chomji organ Polskiego Towarzystwa Chemicznego.
Proc. Muslim Assoc.	Proceedings of the Muslim Association for the Advancement of Science.	Schweiz. Chem.-Ztg. Science	Schweizerische Chemiker-Zeitung. Science.
Proc. Nat. Acad. Sci.	Proceedings of the National Academy of Sciences.	Sci. Agric.	Scientific Agriculture.
Proc. Nova Scotian Inst. Sci.	Proceedings of the Nova Scotian Institute of Science.	Sci. and Cult.	Science and Culture.
Proc. Phil. Soc. Glasgow	Proceedings of the Glasgow Philosophical Society.	Sci. et Ind.	Science et Industrie.
Proc. Physical Soc.	Proceedings of the Physical Society of London.	Sci. Ind. Rep. Roure-Bertrand Fils	Scientific and Industrial Reports of Roure-Bertrand Fils.
Proc. Physiol. Soc.	Proceedings of the Physiological Society.	Sci. Mem. Univ. Saratov	Scientific Memoirs of the University of Saratov.
Proc. Roy. Inst.	Proceedings of the Royal Institution of Great Britain.	Sci. Papers Inst. Phys. Chem. Res. Tokyo	Scientific Papers of the Institute of Physical and Chemical Research, Tokyo.
Proc. Roy. Irish Acad.	Proceedings of the Royal Irish Academy.	Sci. Proc. Roy. Dublin Soc.	Scientific Proceedings of the Royal Dublin Society.
Proc. Roy. Soc.	Proceedings of the Royal Society.	Sci. Quart. Nat. Univ. Peking	Science Quarterly of the National University of Peking.
Proc. Roy. Soc. Edin.	Proceedings of the Royal Society of Edinburgh.	Sci. Rep. Hiroshima Tech. Sch.	Scientific Reports of the Hiroshima Higher Technical School.
Proc. Roy. Soc. Med.	Proceedings of the Royal Society of Medicine.	Sci. Rep. Tôhoku	Science Reports, Tôhoku Imperial University.
Proc. Roy. Soc. Queensland	Proceedings of the Royal Society of Queensland.	Sci. Rep. Tokyo Bunrika Daigaku.	Science Reports of the Tokyo Bunrika Daigaku.
Proc. Roy. Soc. Tasmania	Proceedings of the Royal Society of Tasmania.	Sci. Rep. Tsing Hua Univ.	Science Reports of the National Tsing Hua University.
Proc. Sci. Assoc., Vizianagram	Proceedings of the Science Association, Maharajah's College, Vizianagram.	Sci. Trans. Roy. Dublin Soc.	Scientific Transactions of the Royal Dublin Society.
Proc. Soc. Exp. Biol. Med.	Proceedings of the Society for Experimental Biology and Medicine.	Scot. J. Agric.	Scottish Journal of Agriculture.
Proc. S. Wales Inst. Eng.	Proceedings of the South Wales Institute of Engineers.	Sewage Works' J.	Sewage Works' Journal.
Proc. Tech. Sect. Paper Makers' Assoc	Proceedings of the Technical Section of the Paper Makers' Association of Great Britain and Ireland.	Sitzungsber. Akad. Wiss. Wien	Sitzungsberichte der Akademie der Wissenschaften, Wien.
Proc. U.S. Nat. Mus.	Proceedings of the United States National Museum.	Sitzungsber. Heidelberg Akad. Wiss.	Sitzungsberichte der Heidelberger Akademie der Wissenschaften.
Przemysl Chem.	Przemysl Chemiczny.	Sitzungsber. Preuss. Akad. Wiss. Berlin	Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin.
Publ. Fac. Sci. Univ. Masaryk.	Publications de la Faculté des Sciences de l'Université Masaryk (Sply vydané Přírodovědeckou Facultou Masarykovy University).	Smithsonian Misc. Coll.	Smithsonian Miscellaneous Collection.
Pulp and Paper Magazine of Canada.	Pulp and Paper Magazine of Canada.	Soap	Soap.
Quart. J. Geol. Soc.	Quarterly Journal of the Geological Society.	Soap Trade Rev.	Soap, Perfumery and Cosmetic Trade Review.
Quart. J. Med.	Quarterly Journal of Medicine.	Soil Res.	Soil Research.
Quart. J. Pharm.	Quarterly Journal of Pharmacy and Pharmacology.	Soil Sci.	Soil Science.
Queensland J. Agric.	Queensland Journal of Agriculture.	Sprechsaal	Sprechsaal.
Rayon and Melland Text. Month.	Rayon and Melland Textile Monthly.	Stahl u. Eisen	Stahl und Eisen.
Rec. Australian Mus.	Records of the Australian Museum.	Stain Tech.	Stain Technology.
Rec. trav. bot. Néerland.	Recueil des travaux botaniques Néerlandaises.	Staz. sper. agr. ital.	Stazioni sperimentali agrarie italiane.
Rec. trav. chim.	Recueil des travaux chimiques des Pays-Bas.	Sugar Bull.	Sugar Bulletin.
Rend. Accad. Sci. Fis. Mat. Napoli	Rendiconto dell' Accademia delle Scienze Fisiche e Matematiche, Napoli.	Suomen Kem.	Suomen Kemistilehti Acta Chemica Fennica.
		Superphosphat	Superphosphat.
		Superphosphate	Superphosphate.
		Svensk Kem. Tidskr.	Svensk Kemisk Tidskrift.
		Synth. Appl. Fin.	Synthetic and Applied Finishes.
		Tasmanian Agric. J.	Tasmanian Agricultural Journal.
		Tech. Publ. Tin Res. Council.	Technical Publications of the International Tin Research and Development Council.
		Tech. Rep. Tôhoku	Technology Reports of the Tôhoku Imperial University, Sendai, Japan.
		Tekn. Tidsk.	Teknisk Tidskrift.



ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Textilber.	Melliand's Textilberichte über Wissenschaft, Industrie und Handel.	Vet. Rec.	Veterinary Record.
Tids. Kjemi	Tidsskrift for Kjemi og Bergvesen.	Virginia (Blacksburg) Exp. Sta. Bull.	Virginia (Blacksburg) Experiment Station Bulletin.
Tonind.-Ztg.	Tonindustrie-Zeitung.	Virginia Truck Exp. Sta. Bull.	Virginia Truck Experiment Station Bulletin.
Trans. Amer. Inst. Chem. Eng.	Transactions of the American Institute of Chemical Engineers.	Welsh J. Agric.	Welsh Journal of Agriculture.
Trans. Amer. Inst. Metals	Transactions of the American Institution of Metals.	Wiss. Veröff. Siemens-Werken	Wissenschaftliche Veröffentlichungen aus den Siemens-Werken.
Trans. Amer. Inst. Min. Met. Eng.	Transactions of the American Institute of Mining and Metallurgical Engineers.	Woch. Brau.	Wochenchrift für Brauerei.
Trans. Amer. Soc. Met.	Transactions of the American Society of Metals.	Zavod. Lab.	Zavodskaja Laboratoriya.
Trans. Ceram. Soc.	Transactions of the Ceramic Society.	Z. anal. Chem.	Zeitschrift für analytische Chemie.
Trans. Dokuchaiev Soil Inst.	Transactions of the Dokuchaiev Soil Institute.	Z. anorg. Chem.	Zeitschrift für anorganische und allgemeine Chemie.
Trans. Electrochem. Soc.	Transactions of the Electrochemical Society.	Z. Biol.	Zeitschrift für Biologie.
Trans. Faraday Soc.	Transactions of the Faraday Society.	Z. deut. bot. Ges.	Zeitschrift der deutschen botanischen Gesellschaft.
Trans. Inst. Min. Eng.	Transactions of the Institution of Mining Engineers.	Z. deut. Geol. Ges.	Zeitschrift der deutschen Geologischen Gesellschaft.
Trans. Inst. Min. Met.	Transactions of the Institution of Mining and Metallurgy.	Z. Elektrochem.	Zeitschrift für Elektrochemie.
Trans. Inst. Plast. Ind.	Transactions of the Institute of the Plastics Industry.	Z. exp. Path. Ther.	Zeitschrift für experimentelle Pathologie und Therapie.
Trans. Inst. Rubber Ind.	Transactions of the Institution of the Rubber Industry.	Z. ges. Brauw.	Zeitschrift für das gesamte Brauwesen.
Trans. N. Eng. Inst. Min. Mech. Eng.	Transactions of the North of England Institute of Mining and Mechanical Engineers.	Z. ges. exp. Med.	Zeitschrift für die gesamte experimentelle Medizin.
Trans. New Zealand Inst.	Transactions of the New Zealand Institute.	Z. ges. Naturwiss.	Zeitschrift für die gesamte Naturwissenschaft.
Trans. Nova Scotia Inst. Sci.	Transactions of the Nova Scotia Institute of Science.	Z. ges. Schiess- u. Sprengstoffw.	Zeitschrift für das gesamte Schiess- und Sprengstoffwesen.
Trans. Opt. Soc.	Transactions of the Optical Society.	Z. Hyg.	Zeitschrift für Hygiene und Infektionskrankheiten.
Trans. Roy. Irish Acad.	Transactions of the Royal Irish Academy.	Z. Instrument.	Zeitschrift für Instrumentenkunde.
Trans. Roy. Soc. Canada	Transactions of the Royal Society of Canada.	Z. Krist.	Zeitschrift für Kristallographie.
Trans. Roy. Soc. Edin.	Transactions of the Royal Society of Edinburgh.	Z. Metallk.	Zeitschrift für Metallkunde.
Trans. Roy. Soc. S. Africa.	Transactions of the Royal Society of South Africa.	Z. Parasitenk.	Zeitschrift für Parasitenkunde.
Trans. Saratov Univ.	Transactions of the Saratov University (Gelehrte Notizen der Saratover Staats Universität).	Z. Pflanz. Düng.	Zeitschrift für Pflanzenernährung, Düngung, und Bodenkunde.
Trop. Agric.	Tropical Agriculturist (Ceylon).	Z. Pflanzenkr. Pflanzenschutz	Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz.
Trop. Agric. (Trinidad)	Tropical Agriculture (Trinidad)	Z. Physik	Zeitschrift für Physik.
Tsch. Min. Mitt.	Mineralogische und Petrographische Mitteilungen (Zeitschrift für Kristallographie, Mineralogie, und Petrographie, Abteilung B).	Z. physikal. Chem.	Zeitschrift für physikalische Chemie.
U.S. Bur. Mines, Bull., Tech. Papers, and Rept. Invest.	United States Bureau of Mines, Bulletins, Technical Papers, and Reports of Investigations.	Z. physikal. chem. Unterr.	Zeitschrift für den physikalischen und chemischen Unterricht.
U.S. Bur. Plant Ind.	United States Bureau of Plant Industry.	Z. physiol. Chem.	Hoppe-Seyler's Zeitschrift für physiologische Chemie.
U.S. Dept. Agric. Bull. (or Circ.)	United States Department of Agriculture Bulletins (or Circulars).	Z. prakt. Geol.	Zeitschrift für praktische Geologie.
U.S. Hyg. Labor. Bull.	United States Hygienic Laboratory Bulletins.	Z. Spiritusind.	Zeitschrift für Spiritusindustrie.
U.S.P.	United States Patent.	Z. Unters. Lebensm.	Zeitschrift für Untersuchung der Lebensmittel.
Ukrain. Chem. J.	Ukrainian Chemical Journal.	Z. Ver. deut. Zucker. Ind.	Zeitschrift des Vereins der deutschen Zucker-Industrie (now changed to Z. Wirts. Zuckerind.).
Univ. Illinois Bull.	University of Illinois Bulletins.	Z. Vitaminforsch.	Zeitschrift für Vitaminforschung.
Utah Agric. Coll. Exp. Stat. Bull.	Utah Agricultural College Experiment Station Bulletins.	Z. Wirts. Zuckerind.	Zeitschrift der Wirtschaftsgruppe Zuckerindustrie (Verein der Deutschen Zucker-Industrie).
Verfkroniek	Verfkroniek.	Z. wiss. Biol.	Zeitschrift für wissenschaftliche Biologie.
Verh. Geol. Reichsanst. Wien	Verhandlungen der Geologischen Reichsanstalt in Wien.	Z. wiss. Mikrosk.	Zeitschrift für wissenschaftliche Mikroskopie und mikroskopische Technik.
Verh. Ges. deut. Naturforsch. Aertze	Verhandlungen der Gesellschaft deutscher Naturforscher und Aertze.	Z. wiss. Phot.	Zeitschrift für wissenschaftliche Photographie, Photophysik und Photochemie.
Vermont Agric. Exp. Sta. Bull.	Vermont Agricultural Experiment Station Bulletin.	Z. Zuckerind. Czecho-slov.	Zeitschrift für die Zuckerindustrie der Czechoslovakischen Republik.
		Zavod. Lab.	Zavodskaja Laboratoriya.
		Zellstoff u. Papier	Zellstoff und Papier.
		Zentr. Bakt.	Zentralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten.
		Zentr. Min.	Zentralblatt für Mineralogie, Geologie und Paläontologie.
		Zentr. Zuckerind.	Zentralblatt für Zuckerindustrie.

## List of Patents Abstracted.

## BRITISH PATENTS.

B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
861	417,419	157	418,253	18	418,010	66	419,522	147	420,052	112	421,141	141		
834	417,449	50	418,262	19	418,035	59	419,527	96	420,054	101	421,148	248		
513	417,468	102	418,263	18	418,041	181	419,528	124	420,066	92	421,166	216		
2	417,465	51	418,265	25	418,042	98	419,535	101	420,068	327	421,185	353		
2	417,527	55	418,295	15	418,043	56	419,543	59	420,078	101	421,185	185		
812	417,534	9	418,298	236	418,044	87	419,545	180	420,078	124	421,185	162		
799	417,555	55	418,301	29	418,045	34	419,555	70	420,083	96	421,185	206		
738	417,593	4	418,316	87	418,053	34	419,560	315	420,092	97	421,185	140		
157	417,595	4	418,334	14	418,059	51	419,566	84	420,095	95	421,185	129		
148	417,617	4	418,335	146	418,060	50	419,567	140	420,099	96	421,185	180		
121	417,620	4	418,337	48	418,076	185	419,579	126	420,105	147	421,185	227		
25	417,641	5	418,348	30	418,078	50	419,582	58	420,115	180	421,185	235		
20	417,652	88	418,349	51	418,080	50	419,583	94	420,116	114	421,185	235		
157	417,654	19	418,360	15	418,089	158	419,585	96	420,124	180	421,185	217		
178	417,659	13	418,364	44	418,092	21	419,588	92	420,137	92	421,185	141		
155	417,693	161	418,367	15	418,094	155	419,599	94	420,140	140	421,185	141		
2	417,701	44	418,368	46	418,097	15	419,603	124	420,169	101	421,185	194		
305	417,704	87	418,369	46	419,007	50	419,604	112	420,182	83	421,185	235		
146	417,707	3	418,374	35	419,000	155	419,607	124	420,163	113	421,185	236		
157	417,719	19	418,376	35	419,010	57	419,610	67	420,181	161	421,185	213		
66	417,734	88	418,381	40	419,019	40	419,611	195	420,192	108	421,185	176		
65	417,757	85	418,385	40	419,032	51	419,631	155	420,217	102	421,185	145		
147	417,757	85	418,403	30	419,048	50	419,629	98	420,221	101	421,185	141		
314	417,782	4	418,404	40	419,057	503	419,632	124	420,228	108	421,185	163		
314	417,785	46	418,444	15	419,062	93	419,641	147	420,235	89	421,185	226		
66	417,799	165	418,445	35	419,068	148	419,643	125	420,248	315	421,185	145		
86	417,822	87	418,449	18	419,071	80	419,647	67	420,250	110	421,185	189		
86	417,834	119	418,453	18	419,081	62	419,665	236	420,253	123	421,185	226		
80	417,856	88	418,454	14	419,090	147	419,666	95	420,269	109	421,185	193		
362	417,863	121	418,455	14	419,125	87	419,667	195	420,275	320	421,185	122		
327	417,869	39	418,458	14	419,154	59	419,668	78	420,281	84	421,185	141		
314	417,903	29	418,462	2	419,154	60	419,670	94	420,286	173	421,185	235		
157	417,923	87	418,466	157	419,170	170	419,675	93	420,289	108	421,185	144		
155	417,930	13	418,467	18	419,180	58	419,680	155	420,307	94	421,185	212		
148	417,934	2	418,469	33	419,183	67	419,688	320	420,308	110	421,185	306		
156	417,930	14	418,472	87	419,187	50	419,690	181	420,317	111	421,185	145		
156	417,937	33	418,480	17	419,190	58	419,712	84	420,324	113	421,185	176		
156	417,943	24	418,481	120	419,196	165	419,728	70	420,330	113	421,185	206		
155	417,944	34	418,486	149	419,208	53	419,736	94	420,334	113	421,185	149		
155	417,946	11	418,498	46	419,214	61	419,742	125	420,356	126	421,185	176		
103	417,948	34	418,506	33	419,220	50	419,744	188	420,359	141	421,185	226		
156	417,957	15	418,529	29	419,232	146	419,763	96	420,362	95	421,185	180		
10	417,965	10	418,533	13	419,245	148	419,764	557	420,367	86	421,185	97		
147	417,966	3	418,547	10	419,248	119	419,761	157	420,368	110	421,185	149		
9	417,978	98	418,550	18	419,257	50	419,762	157	420,370	90	421,185	163		
156	417,980	15	418,551	30	419,259	50	419,767	306	420,371	136	421,185	173		
10	417,993	44	418,557	30	419,286	120	419,788	306	420,386	111	421,185	143		
8	417,999	13	418,560	155	419,292	67	419,790	58	420,401	115	421,185	158		
147	418,005	13	418,561	175	419,293	70	419,810	126	420,402	107	421,185	203		
156	418,006	5	418,568	50	419,295	97	419,817	95	420,406	235	421,185	139		
156	418,011	14	418,569	150	419,306	69	419,819	157	420,411	84	421,185	139		
29	418,035	35	418,581	40	419,308	59	419,820	89	420,426	180	421,185	175		
155	418,041	44	418,589	2	419,312	89	419,826	111	420,427	86	421,185	139		
155	418,043	13	418,590	33	419,339	51	419,832	107	420,437	83	421,185	135		
174	418,048	87	418,591	78	419,350	58	419,838	123	420,444	140	421,185	150		
156	418,061	168	418,597	18	419,357	93	419,839	114	420,448	184	421,185	207		
10	418,068	34	418,600	46	419,358	88	419,840	114	420,449	121	421,185	207		
8	418,069	34	418,622	15	419,361	15	419,844	147	420,456	213	421,185	158		
10	418,074	15	418,632	147	419,366	98	419,846	98	420,461	235	421,185	130		
157	418,075	3	418,667	57	419,367	50	419,849	89	420,471	109	421,185	183		
157	418,080	33	418,673	51	419,368	506	419,856	98	420,473	102	421,185	334		
2	418,095	87	418,683	67	419,370	87	419,868	92	420,494	313	421,185	183		
8	418,096	162	418,714	147	419,371	87	419,874	97	420,513	235	421,185	140		
168	418,127	44	418,723	57	419,372	50	419,875	83	420,514	235	421,185	204		
9	418,133	19	418,725	51	419,373	112	419,883	112	420,518	139	421,185	139		
146	418,139	13	418,726	55	419,387	163	419,884	180	420,520	140	421,185	236		
9	418,143	14	418,745	79	419,391	315	419,900	111	420,525	161	421,185	206		
17	418,150	19	418,746	15	419,444	179	419,901	111	420,528	162	421,185	235		
148	418,153	93	418,751	49	419,445	195	419,918	96	420,529	144	421,185	334		
156	418,157	48	418,757	35	419,447	94	419,941	115	420,533	162	421,185	259		
17	418,162	13	418,772	155	419,457	92	419,942	92	420,539	214	421,185	315		
51	418,166	42	418,779	88	419,458	124	419,945	93	420,541	149	421,185	159		
17	418,200	178	418,788	168	419,469	157	419,946	92	420,543	235	421,185	349		
49	418,201	85	418,789	157	419,477	96	419,952	111	420,544	235	421,185	196		
17	418,202	15	418,793	148	419,479	148	419,953	235	420,545	139	421,185	122		
226	418,203	18	418,817	29	419,481	123	419,954	94	420,560	154	421,185	139		
51	418,204	10	418,826	50	419,484	188	419,960	236	420,563	173	421,185	150		
	418,211	41	418,827	50	419,485	67	419,963	84	420,564	161				
	418,214	46	418,859	147	419,487	155	419,964	83	420,567	235				
	418,220	17	418,873	20	419,496	69	419,967	85	420,577	235				
	418,230	13	418,875	186	419,499	148	419,990	95	420,580	235				
	418,231	155	418,894	147	419,507	156	420,021	84	420,589	162				
	418,235	5	418,926	180	419,508	148	420,040	109	420,591	141				
	418,247	14	418,916	21	419,511	84	420,044	148	420,592	186				



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421,123	136	421,691	218	422,300	264	423,023	271	423,637	369	424,335	368	424,905	434
421,126	160	421,692	256	422,369	414	423,046	267	423,639	321	424,348	478	424,906	704
421,137	130	421,696	236	422,371	275	423,048	504	423,642	351	424,354	717	424,916	495
421,138	207	421,704	248	422,397	226	423,053	271	423,644	320	424,355	717	424,919	456
421,139	187	421,718	218	422,416	239	423,055	267	423,643	355	424,365	763	424,921	448
421,142	149	421,721	208	422,417	263	423,057	287	423,668	348	424,366	406	424,925	457
421,144	212	421,727	206	422,419	275	423,062	301	423,669	290	424,370	506	424,930	415
421,146	105	421,732	220	422,422	220	423,063	266	423,697	504	424,372	467	424,941	457
421,147	212	421,733	238	422,424	228	423,065	300	423,699	504	424,373	504	424,959	492
421,154	226	421,737	219	422,450	216	423,079	287	423,731	503	424,375	502	424,960	556
421,157	144	421,739	220	422,451	279	423,083	284	423,732	503	424,376	414	424,962	434
421,158	186	421,754	227	422,461	263	423,084	506	423,735	348	424,380	346	424,967	444
421,171	234	421,764	210	422,463	227	423,086	257	423,736	340	424,389	537	424,970	447
421,172	349	421,768	266	422,466	224	423,090	300	423,743	300	424,398	450	424,972	444
421,173	129	421,771	206	422,471	210	423,102	332	423,751	367	424,410	470	424,976	479
421,175	208	421,781	218	422,488	225	423,104	503	423,762	440	424,414	388	424,977	641
421,217	236	421,810	241	422,491	285	423,107	717	423,767	355	424,415	538	424,995	434
421,218	138	421,811	210	422,512	504	423,108	308	423,768	348	424,419	400	424,997	556
421,228	136	421,813	263	422,514	210	423,140	290	423,785	355	424,424	377	425,001	482
421,237	303	421,819	229	422,516	279	423,152	300	423,790	308	424,442	496	425,007	546
421,264	219	421,820	241	422,521	342	423,162	290	423,792	298	424,453	717	425,013	434
421,269	260	421,828	263	422,530	238	423,183	717	423,795	236	424,456	356	425,026	434
421,279	185	421,831	263	422,540	226	423,185	717	423,798	504	424,461	370	425,030	479
421,284	184	421,843	227	422,556	224	423,188	270	423,823	505	424,463	505	425,032	542
421,289	307	421,854	303	422,563	262	423,192	287	423,827	334	424,476	444	425,036	455
421,290	367	421,856	504	422,564	262	423,200	255	423,833	349	424,478	393	425,037	469
421,294	210	421,862	263	422,568	238	423,211	300	423,844	380	424,493	371	425,041	702
421,297	235	421,866	240	422,569	506	423,236	304	423,860	439	424,494	538	425,042	703
421,305	196	421,867	262	422,592	503	423,237	397	423,862	369	424,495	491	425,044	624
421,308	228	421,867	262	422,595	718	423,238	303	423,863	348	424,502	387	425,048	456
421,310	193	421,865	256	422,598	393	423,251	300	423,865	348	424,506	443	425,049	470
421,312	260	421,868	211	422,605	717	423,250	397	423,866	385	424,508	572	425,053	558
421,313	167	421,890	212	422,606	718	423,273	336	423,869	349	424,531	344	425,054	555
421,318	649	421,904	414	422,623	289	423,275	301	423,877	347	424,536	450	425,056	477
421,332	154	421,916	287	422,635	262	423,277	320	423,880	347	424,539	308	425,059	576
421,356	260	421,920	223	422,636	393	423,279	319	423,883	333	424,553	629	425,061	618
421,360	304	421,928	216	422,643	266	423,280	503	423,885	248	424,554	388	425,069	620
421,367	166	421,935	220	422,644	200	423,282	399	423,889	439	424,559	398	425,073	556
421,379	164	421,940	228	422,670	278	423,286	694	423,892	367	424,561	370	425,075	620
421,385	196	421,941	257	422,671	279	423,287	333	423,907	405	424,563	382	425,079	450
421,394	242	421,942	240	422,678	249	423,291	375	423,931	503	424,564	344	425,086	556
421,397	105	421,943	262	422,680	301	423,292	344	423,933	306	424,569	346	425,096	557
421,401	258	421,945	210	422,684	229	423,295	305	423,934	337	424,570	407	425,102	567
421,403	210	421,958	414	422,688	414	423,307	307	423,938	304	424,572	473	425,103	812
421,405	304	421,963	226	422,689	269	423,308	322	423,951	505	424,573	442	425,104	524
421,407	205	421,965	288	422,690	718	423,324	343	423,959	338	424,578	486	425,128	557
421,408	259	421,967	210	422,697	263	423,326	316	423,960	504	424,581	386	425,131	620
421,420	164	421,969	225	422,726	237	423,328	440	423,971	365	424,582	486	425,136	434
421,421	220	421,970	355	422,732	238	423,331	330	423,972	379	424,586	624	425,147	434
421,429	205	421,971	224	422,742	393	423,338	440	423,985	384	424,588	706	425,148	456
421,435	185	421,973	220	422,748	290	423,343	290	424,000	346	424,590	477	425,152	480
421,439	236	421,975	220	422,764	262	423,354	333	424,003	503	424,596	365	425,163	434
421,456	242	421,986	287	422,773	258	423,361	440	424,008	517	424,597	466	425,165	468
421,466	185	422,022	305	422,777	316	423,365	300	424,015	355	424,601	415	425,166	468
421,486	182	422,027	242	422,784	605	423,370	506	424,032	430	424,607	394	425,167	702
421,490	104	422,028	242	422,790	237	423,374	300	424,040	538	424,616	344	425,168	762
421,498	226	422,032	211	422,791	717	423,397	306	424,045	317	424,645	538	425,179	494
421,499	185	422,033	211	422,793	313	423,417	308	424,047	306	424,659	715	425,181	466
421,505	185	422,047	279	422,804	262	423,432	305	424,050	344	424,663	503	425,188	449
421,510	182	422,057	287	422,821	323	423,441	346	424,053	363	424,672	627	425,192	443
421,552	256	422,058	234	422,826	280	423,444	321	424,061	370	424,677	494	425,198	443
421,553	241	422,061	248	422,840	257	423,446	297	424,070	418	424,685	397	425,201	470
421,554	206	422,080	306	422,841	288	423,447	397	424,080	466	424,691	452	425,208	434
421,555	239	422,114	313	422,843	717	423,450	397	424,098	401	424,713	435	425,211	763
421,556	204	422,126	248	422,845	278	423,451	495	424,107	497	424,717	627	425,214	466
421,559	234	422,130	240	422,856	288	423,462	618	424,124	503	424,724	506	425,215	625
421,561	228	422,131	240	422,860	269	423,467	506	424,125	367	424,726	435	425,216	524
421,562	240	422,136	280	422,868	237	423,471	352	424,134	376	424,730	447	425,217	443
421,563	210	422,139	262	422,876	301	423,484	303	424,135	376	424,731	537	425,218	466
421,564	226	422,148	223	422,880	269	423,490	321	424,141	365	424,732	435	425,221	448
421,566	204	422,151	234	422,887	237	423,496	320	424,146	495	424,733	470	425,222	556
421,569	254	422,163	224	422,891	258	423,499	304	424,159	395	424,734	494	425,226	763
421,589	229	422,165	230	422,892	393	423,504	327	424,164	367	424,741	455	425,227	555
421,591	220	422,167	314	422,899	393	423,506	333	424,188	350	424,746	504	425,230	443
421,592	219	422,181	280	422,908	494	423,507	344	424,189	365	424,748	441	425,235	831
421,593	640	422,192	280	422,920	271	423,512	352	424,191	396	424,756	474	425,236	462
421,596	218	422,195	264	422,923	263	423,513	335	424,195	495	424,757	494	425,239	619
421,598	207	422,210	254	422,930	263	423,514	322	424,205	346	424,769	462	425,247	462
421,599	265	422,233	414	422,937	263	423,519	303	424,210	387	424,780	435	425,271	435
421,606	224	422,238	229	422,940	288	423,520	297	424,226	504	424,781	504	425,295	517
421,608	702	422,242	263	422,941	238	423,521	349	424,229	351	424,784	479	425,300	480
421,610	220	422,273	342	422,943	393	423,532	332	424,230	368	424,785	479	425,302	797
421,611	219	422,281	266	422,948	624	423,541	287	424,236	386	424,801	434	425,306	434
421,613	224	422,283	228	422,954	503	423,543	494	424,258	387	424,819	467	425,307	

	age. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
	405	425,835	638	426,383	879	427,162	555	427,733	622	428,158	655	428,743	684
	495	425,839	707	426,384	570	427,170	678	427,738	618	428,160	642	428,744	704
	407	425,841	707	426,388	608	427,179	531	427,742	645	428,174	700	428,749	712
	703	425,843	468	426,402	512	427,191	005	427,746	702	428,182	676	428,754	658
	486	425,846	557	426,403	585	427,192	532	427,756	610	428,187	832	428,762	700
	443	425,848	038	426,423	548	427,194	026	427,757	773	428,188	658	428,764	928
	435	425,849	480	426,444	540	427,205	556	427,763	772	428,191	658	428,767	070
	524	425,854	487	426,450	008	427,208	589	427,766	611	428,192	675	428,770	985
	460	425,856	456	426,455	544	427,220	543	427,770	624	428,200	810	428,768	658
	450	425,858	480	426,456	544	427,221	618	427,771	941	428,210	658	428,814	701
	435	425,863	523	426,472	531	427,223	019	427,777	662	428,215	655	428,815	701
	541	425,871	467	426,478	538	427,227	032	427,781	032	428,217	616	428,827	722
	405	425,872	507	426,480	455	427,228	503	427,793	610	428,222	702	428,836	711
	442	425,874	441	426,482	589	427,231	520	427,798	661	428,223	620	428,840	711
	439	425,884	583	426,496	537	427,233	555	427,803	622	428,224	668	428,853	066
	454	425,891	583	426,506	657	427,236	585	427,804	738	428,230	657	428,854	657
	454	425,893	441	426,508	589	427,238	556	427,805	610	428,237	658	428,855	907
	462	425,899	582	426,513	482	427,241	085	427,806	611	428,268	661	428,858	700
	478	425,903	523	426,519	584	427,243	556	427,807	777	428,288	810	428,863	720
	434	425,906	039	426,526	557	427,246	585	427,810	620	428,295	704	428,864	683
	480	425,908	020	426,553	541	427,248	562	427,815	770	428,305	607	428,868	748
	454	425,920	508	426,554	511	427,257	585	427,816	621	428,317	656	428,871	716
	448	425,927	487	426,560	533	427,260	538	427,817	738	428,319	650	428,872	704
	526	425,936	871	426,564	842	427,261	572	427,847	622	428,329	031	428,873	670
	460	425,938	441	426,573	556	427,267	588	427,849	661	428,334	675	428,904	720
	450	425,941	460	426,590	531	427,275	583	427,850	769	428,347	645	428,908	758
	492	425,942	487	426,599	533	427,280	606	427,855	811	428,359	942	428,915	695
	511	425,945	497	426,600	556	427,297	606	427,860	769	428,360	702	428,931	759
	449	425,953	440	426,619	482	427,323	942	427,864	684	428,361	604	428,933	662
	434	425,979	544	426,621	481	427,324	641	427,869	610	428,363	810	428,935	989
	504	425,980	522	426,625	556	427,326	631	427,870	739	428,368	068	428,936	759
	487	425,981	522	426,642	530	427,327	585	427,873	610	428,381	810	428,938	737
	467	425,982	522	426,643	511	427,331	575	427,880	864	428,382	831	428,940	664
	707	425,985	482	426,645	582	427,332	941	427,883	661	428,390	941	428,941	750
	542	425,986	511	426,649	513	427,338	611	427,885	509	428,400	661	428,944	665
	517	425,990	842	426,662	546	427,339	673	427,887	975	428,410	617	428,949	823
	487	425,991	464	426,665	625	427,368	585	427,888	668	428,413	661	428,950	907
	842	425,992	454	426,712	531	427,373	610	427,890	662	428,416	616	428,955	720
	513	425,998	524	426,718	942	427,394	703	427,894	669	428,419	654	428,959	658
	536	426,006	504	426,721	556	427,396	661	427,899	619	428,431	658	428,961	733
	478	426,023	491	426,728	555	427,411	810	427,900	626	428,434	700	428,962	658
	443	426,031	482	426,729	520	427,423	620	427,903	620	428,445	664	428,963	735
	511	426,042	454	426,732	538	427,428	654	427,905	583	428,450	665	428,964	810
	477	426,049	523	426,739	632	427,435	661	427,908	626	428,456	737	428,965	985
	441	426,051	648	426,741	544	427,436	654	427,921	810	428,457	658	428,967	657
	524	426,062	539	426,745	512	427,448	619	427,922	941	428,458	909	428,969	736
	435	426,066	542	426,751	588	427,455	905	427,926	626	428,462	664	428,971	760
	582	426,067	497	426,752	561	427,459	672	427,928	810	428,463	760	428,972	713
	482	426,073	542	426,753	511	427,472	703	427,943	620	428,464	658	428,974	669
	843	426,077	038	426,757	562	427,485	585	427,951	739	428,468	942	428,979	900
	582	426,096	491	426,758	557	427,488	654	427,957	609	428,471	682	428,982	661
	038	426,097	482	426,764	638	427,494	599	427,960	662	428,474	657	428,986	960
	482	426,099	401	426,765	557	427,495	600	427,962	702	428,475	759	428,987	665
	020	426,102	048	426,778	562	427,496	544	427,964	637	428,499	711	428,990	712
	482	426,110	638	426,785	539	427,497	543	427,967	803	428,518	696	428,993	683
	441	426,111	558	426,789	568	427,498	585	427,973	941	428,519	658	428,995	956
	038	426,115	550	426,796	562	427,499	610	427,974	655	428,520	664	429,008	700
	401	426,129	490	426,805	511	427,514	682	427,977	942	428,523	666	429,015	675
	505	426,133	454	426,817	541	427,520	672	427,978	805	428,526	712	429,021	956
	481	426,154	511	426,841	541	427,549	661	427,979	655	428,532	684	429,024	976
	620	426,157	454	426,843	539	427,559	588	427,982	656	428,535	941	429,025	989
	491	426,168	542	426,844	538	427,561	654	427,998	611	428,536	749	429,028	659
	487	426,162	407	426,850	544	427,562	600	428,024	610	428,546	670	429,038	715
	478	426,165	544	426,853	032	427,567	637	428,044	659	428,548	725	429,039	739
	583	426,166	524	426,856	524	427,571	610	428,047	722	428,554	700	429,040	739
	487	426,175	539	426,860	507	427,588	654	428,048	597	428,559	909	429,048	658
	542	426,176	578	426,875	539	427,593	772	428,052	644	428,562	908	429,050	696
	629	426,182	481	426,876	532	427,597	784	428,058	657	428,568	659	429,066	659
	455	426,191	025	426,881	562	427,598	662	428,065	616	428,571	684	429,084	070
	508	426,205	507	426,912	588	427,600	772	428,070	717	428,573	661	429,088	711
	481	426,207	557	426,920	538	427,604	767	428,073	700	428,584	899	429,093	658
	038	426,211	557	426,942	491	427,610	610	428,074	812	428,606	704	429,096	749
	481	426,218	452	426,948	541	427,614	032	428,078	810	428,610	900	429,101	700
	638	426,221	486	426,951	531	427,621	599	428,080	618	428,614	661	429,102	720
	015	426,226	512	426,956	542	427,622	722	428,082	659	428,615	908	429,103	720
	038	426,237	486	427,036	584	427,623	772	428,090	627	428,618	665	429,150	711
	440	426,243	539	427,042	538	427,624	662	428,091	627	428,627	900	429,152	720
	487	426,249	511	427,045	512	427,626	588	428,092	665	428,631	657	429,155	720
	482	426,251	638	427,058	627	427,627	631	428,093	665	428,635	748	429,172	657
	454	426,258	037	427,069	632	427,631	610	428,100	644	428,651	657	429,175	657
	030	426,260	575	427,071	542	427,632	662	428,103	659	428,663	668	429,176	985
	456	426,265	513	427,076	557	427,640	772	428,106	617	428,666	687	429,179	958
	491	426,280	544	427,079	619	427,641	585	428,108	616	428,667	909	429,187	985
	468	426,290	573	427,084	530	427,653	800	428,120	624	428,668	751	429,191	669
	524	426,291	573	427,087	533	427,677	653	428,125	810	428,679	639	429,201	948
	481	426,292	624	427,089	589	427,678	615	428,130	675	428,680	639	429,209	980
	491	426,305	543	427,098	508	427,680	501	428,132	655	428,690	942	429,210	961
	497	426,315	509	427,106	588	427,686	766	428,133	655	428,697	941	429,236	955
	468	426,330	541	427,128	568	427,701	086	428,1					

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755		430,053	782	430,018	776	431,260	999	431,801	890	432,360	946		963
135		430,055	793	430,020	770	431,261	799	431,808	840	432,361	981		1119
682		430,061	853	430,024	951	431,275	800	431,809	900	432,368	892		951
752		430,069	837	430,030	891	431,278	1037	431,812	853	432,387	921		1033
740		430,079	797	430,035	774	431,286	815	431,825	981	432,389	998		920
805		430,080	838	430,040	757	431,801	788	431,833	878	432,394	928		929
076		430,092	947	430,055	891	431,806	793	431,841	882	432,396	923		958
076		430,098	757	430,058	797	431,809	788	431,842	1000	432,399	981		944
955		430,105	764	430,064	775	431,813	796	431,848	840	432,403	920		951
803		430,108	829	430,067	773	431,823	794	431,859	991	432,404	914		948
788		430,110	948	430,081	792	431,824	812	431,865	890	432,405	916		1033
756		430,111	751	430,717	958	431,829	908	431,868	876	432,406	891		974
754		430,110	812	430,722	958	431,830	801	431,869	662	432,407	910		974
985		430,130	829	430,764	795	431,831	823	431,871	901	432,413	981		930
950		430,136	816	430,767	864	431,833	812	431,872	876	432,424	902		974
727		430,145	955	430,772	950	431,836	787	431,896	982	432,430	893		937
720		430,154	972	430,773	775	431,844	806	431,935	879	432,431	911		974
701		430,155	776	430,774	830	431,847	827	431,936	879	432,432	925		1100
706		430,166	776	430,777	956	431,851	806	431,939	882	432,435	925		1100
757		430,180	763	430,778	775	431,852	786	431,945	841	432,439	999		939
786		430,190	754	430,781	806	431,855	1000	431,951	861	432,465	966		962
722		430,197	797	430,792	948	431,860	1009	431,956	1099	432,466	1099		973
786		430,199	958	430,795	956	431,867	846	431,964	898	432,469	1100		914
754		430,171	763	430,798	776	431,873	793	431,966	839	432,470	1100		946
721		430,174	754	430,808	799	431,875	829	431,970	837	432,474	925		943
810		430,180	948	430,823	783	431,882	812	431,975	999	432,476	906		929
749		430,184	951	430,828	776	431,884	830	431,976	843	432,478	892		962
755		430,208	748	430,832	948	431,889	787	431,978	883	432,480	894		1119
682		430,213	950	430,837	799	431,897	935	431,986	998	432,483	946		951
803		430,214	702	430,839	796	431,898	796	431,994	876	432,486	993		929
721		430,221	765	430,854	788	431,899	801	432,009	882	432,488	893		1095
819		430,224	958	430,865	891	431,900	787	432,018	846	432,489	891		972
682		430,225	773	430,866	788	431,904	812	432,019	882	432,493	917		943
758		430,233	757	430,869	956	431,908	812	432,020	841	432,497	906		1100
735		430,234	761	430,872	970	431,909	812	432,022	880	432,508	914		976
738		430,235	832	430,876	970	431,910	817	432,025	861	432,512	902		946
738		430,250	762	430,887	776	431,934	794	432,027	943	432,548	907		929
753		430,252	941	430,897	958	431,935	936	432,028	943	432,551	962		1098
755		430,255	830	430,906	776	431,940	787	432,029	943	432,552	929		930
682		430,250	765	430,908	827	431,949	804	432,032	860	432,570	929		930
787		430,260	762	430,911	776	431,956	788	432,046	999	432,571	931		1099
715		430,264	829	430,914	894	431,959	785	432,060	882	432,574	931		963
766		430,277	754	430,916	783	431,968	900	432,075	876	432,587	940		937
749		430,280	923	430,917	891	431,969	998	432,080	882	432,592	984		943
754		430,282	830	430,923	824	431,987	841	432,095	1000	432,599	895		940
738		430,283	1830	430,930	820	431,989	936	432,096	879	432,617	909		946
750		430,286	754	430,935	776	431,995	816	432,101	880	432,626	960		940
743		430,287	766	430,945	948	431,996	935	432,102	882	432,628	894		1099
754		430,298	773	430,948	806	431,504	870	432,103	861	432,636	963		950
751		430,304	955	430,952	787	431,506	935	432,105	999	432,637	961		946
1086		430,312	753	430,953	799	431,508	794	432,121	838	432,638	936		948
702		430,334	766	430,954	796	431,511	998	432,123	882	432,644	900		1033
702		430,335	841	430,969	890	431,519	935	432,140	860	432,646	961		944
996		430,341	766	430,979	808	431,523	1001	432,143	861	432,647	895		963
810		430,343	777	430,987	956	431,524	847	432,144	999	432,677	908		1033
748		430,340	765	430,989	891	431,530	833	432,152	1002	432,680	963		944
722		430,350	765	430,991	783	431,531	816	432,155	840	432,689	974		963
970		430,351	765	430,993	801	431,537	858	432,158	861	432,692	897		1092
784		430,352	765	431,004	811	431,560	800	432,159	963	432,694	923		1092
738		430,357	783	431,011	775	431,565	799	432,168	838	432,698	910		1033
727		430,364	891	431,016	799	431,575	817	432,176	883	432,708	929		937
969		430,376	754	431,021	811	431,577	817	432,188	976	432,714	900		974
754		430,380	778	431,030	890	431,584	999	432,190	915	432,736	936		1006
738		430,381	774	431,031	776	431,593	811	432,191	882	432,742	930		939
812		430,384	948	431,054	957	431,596	878	432,196	893	432,746	907		938
720		430,386	948	431,060	950	431,606	833	432,198	928	432,760	931		1007
750		430,391	760	431,062	805	431,609	794	432,204	895	432,762	961		1092
792		430,392	787	431,063	890	431,635	936	432,212	998	432,770	899		957
713		430,395	702	431,065	827	431,641	815	432,213	993	432,771	959		1082
735		430,404	769	431,066	790	431,642	860	432,227	913	432,775	910		941
1005		430,409	765	431,072	783	431,645	847	432,230	882	432,797	937		956
811		430,410	782	431,073	801	431,647	968	432,242	1000	432,803	963		930
767		430,414	766	431,074	793	431,649	847	432,244	923	432,808	911		1006
754		430,422	770	431,087	827	431,656	877	432,249	891	432,810	909		987
810		430,426	776	431,090	950	431,660	999	432,253	919	432,814	973		948
812		430,430	769	431,095	804	431,662	848	432,271	1137	432,815	909		937
786		430,450	754	431,105	796	431,670	848	432,274	903	432,819	951		987
762		430,455	766	431,107	794	431,674	834	432,276	894	432,828	909		950
747		430,464	958	431,139	787	431,679	852	432,277	943	432,846	930		1006
956		430,471	787	431,141	842	431,680	852	432,278	1099	432,848	929		949
773		430,473	830	431,142	879	431,682	847	432,280	946	432,851	974		958
797		430,477	774	431,143	827	431,683	793	432,283	925	432,852	930		1006
955		430,485	759	431,145	991	431,686	834	432,284	911	432,880	944		960
754		430,480	765	431,147	786	431,688	824	432,303	993	432,881	1099		973
799		430,526	956	431,148	786	431,695	813	432,306	926	432,885	940		1023
762		430,563	956	431,165	840	431,701	846	432,308	926	432,892	1025		948
761		430,571	780	431,168	815	431,703	847	432,310	892	432,894	972		972
772		430,572	796	431,172	823	431,704	848	432,328	944	432,895	972		958
837		430,575	830	431,186	842	431,756	834	432,338	926	432,898	1092		1100
763		430,576	795	431,187	842	431,772	837	432,345	981	432,905	963		957
754		430,578	796	431,191	798	431,776	944	432,348	981	432,914	943		1025
778		430,580	829	431,195	862	431,777	998	432,349	925	432,915	1092		957
832		430,587	890	431,196	829	431,781	903	432,351	1000	432,938	930		1001
950		430,590	761	431,201	1037	431,786	840	432,353	895	432,954	929		100

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433,543	030	433,012	1006	434,240	1017	434,622	091	434,999	1092	435,431	1140	435,806	1138
433,549	1003	433,018	998	434,255	1142	434,624	1125	435,002	1067	435,436	1100	435,809	1126
433,550	1083	433,019	977	434,263	1058	434,626	1034	435,003	1050	435,443	1140	435,811	1120
433,551	977	433,027	938	434,266	1059	434,636	904	435,032	1076	435,444	1140	435,812	1143
433,553	956	433,030	959	434,295	1034	434,640	1044	435,033	1163	435,448	1095	435,826	1127
433,556	030	433,036	977	434,302	1142	434,660	1062	435,034	1065	435,450	1100	435,830	1068
433,559	030	433,038	973	434,305	1024	434,661	1062	435,039	1131	435,452	1095	435,839	1085
433,563	030	433,043	978	434,307	1082	434,663	991	435,041	1144	435,461	1134	435,858	1129
433,564	983	433,044	969	434,311	1034	434,669	1025	435,040	1074	435,466	1085	435,862	1072
433,585	1098	433,050	977	434,314	1044	434,672	1034	435,047	1077	435,475	1150	435,863	1131
433,586	075	433,057	904	434,317	1083	434,673	1126	435,058	1050	435,477	1140	435,864	1164
433,593	983	433,060	1103	434,320	1041	434,700	1027	435,060	1134	435,479	1134	435,868	1140
433,625	040	433,061	1073	434,324	1067	434,711	900	435,064	1074	435,480	1165	435,871	1181
433,633	957	433,074	988	434,331	1044	434,712	909	435,077	1110	435,481	1131	435,874	1110
433,637	040	433,079	978	434,338	1148	434,714	1034	435,080	1082	435,484	1070	435,890	1105
433,645	948	433,094	1005	434,339	1082	434,725	985	435,088	1041	435,488	1095	435,936	1119
433,647	931	433,099	1023	434,348	1053	434,726	1026	435,092	1142	435,494	1130	435,948	1138
433,653	950	434,001	1053	434,352	1147	434,736	1042	435,093	1147	434,510	1075	435,965	1083
433,655	975	434,000	977	434,358	994	434,737	1125	435,096	1129	435,512	1082	435,967	1104
433,666	1005	434,008	977	434,359	1042	434,738	1125	435,097	1101	435,539	1152	435,968	1138
433,668	030	434,011	938	434,379	1042	434,740	1027	435,108	1134	435,542	1037	435,971	1165
433,669	020	434,015	1024	434,390	1068	434,745	1058	435,110	1037	435,543	1120	435,974	1104
433,676	948	434,022	1099	434,393	1082	434,750	1067	435,111	1042	435,546	1110	435,978	1110
433,702	981	434,028	1100	434,400	1147	434,760	1147	435,113	1037	435,548	1127	435,987	1138
433,723	1099	434,035	1092	434,402	1044	434,761	1070	435,126	1076	435,550	1122	435,992	1104
433,725	993	434,037	972	434,403	1082	434,778	1045	435,128	1041	435,557	1148	436,003	1138
433,727	1006	434,047	1090	434,406	1068	434,799	1116	435,129	1042	435,560	1122	436,008	1165
433,728	1006	434,050	938	434,416	1086	434,800	1148	435,134	1076	435,563	1133	436,015	1144
433,738	977	434,058	1067	434,423	1058	434,806	1155	435,168	1027	435,575	1140	436,027	1083
433,741	994	434,073	1024	434,424	985	434,810	1042	435,184	1070	435,587	1103	436,028	1110
433,748	950	434,109	1034	434,425	1040	434,815	1135	435,192	1132	435,588	1070	436,043	1119
433,751	989	434,112	1050	434,429	1086	434,828	1147	435,194	1126	435,597	1127	436,044	1128
433,760	978	434,115	1005	434,432	1003	434,830	1148	435,195	1068	435,598	1127	436,050	1116
433,765	977	434,116	1100	434,433	1086	434,835	1134	435,200	1130	435,605	1130	436,072	1153
433,770	977	434,126	1086	434,447	1045	434,837	1041	435,215	1096	435,613	1103	436,084	1103
433,771	1002	434,128	985	434,450	1056	434,846	1147	435,219	1085	435,614	1152	436,090	1137
433,775	977	434,132	1087	434,452	985	434,847	1147	435,230	1128	435,618	1150	436,093	1165
433,777	980	434,136	1056	434,458	1067	434,850	1057	435,231	1076	435,634	1138	436,105	1144
433,780	930	434,137	1067	434,461	1082	434,856	1074	435,237	1074	435,636	1105	436,110	1134
433,783	986	434,139	1086	434,468	1148	434,858	1040	435,242	1067	435,642	1140	436,116	1110
433,785	987	434,141	1082	434,488	992	434,867	1041	435,263	1075	435,648	1127	436,133	1129
433,793	987	434,150	1092	434,489	1057	434,870	1056	435,270	1056	435,669	1148	436,143	1130
433,809	958	434,158	985	434,490	1057	434,875	1070	435,282	1074	435,679	1128	436,144	1167
433,812	978	434,159	1083	434,494	1044	434,886	1073	435,290	1131	435,701	1140	436,153	1105
433,818	1100	434,160	985	434,497	1060	434,897	1147	435,311	1137	435,700	1113	436,161	1154
433,823	1032	434,165	1148	434,513	1044	434,900	1134	435,315	1134	435,708	1128	436,194	1127
433,826	1083	434,180	1034	434,524	1001	434,909	1052	435,317	1150	435,716	1104	436,243	1104
433,833	973	434,191	1148	434,531	1147	434,910	1147	435,321	1134	435,717	1133	436,250	1143
433,847	977	434,193	1142	434,540	1040	434,911	1042	435,336	1133	435,721	1085	436,259	1104
433,859	1099	434,194	1142	434,541	1027	434,917	1132	435,342	1135	435,725	1122	436,288	1104
433,860	977	434,203	1040	434,547	1040	434,918	1086	435,348	1095	435,726	1105	436,302	1167
433,861	1098	434,205	1167	434,562	1125	434,925	1148	435,349	1135	435,729	1105	436,392	1105
433,865	946	434,206	1167	434,576	1026	434,926	1126	435,363	1072	435,732	1144	436,436	1160
433,867	1006	434,209	1086	434,579	1034	434,948	1126	435,367	1074	435,762	1154	436,457	1167
433,868	938	434,214	1058	434,580	1037	434,951	1058	435,380	1072	435,767	1152	436,462	1143
433,869	938	434,222	1026	434,581	1026	434,953	1040	435,384	1138	435,769	1094	436,512	1104
433,874	994	434,225	1072	434,586	1148	434,961	1147	435,385	1131	435,771	1122	436,532	1104
433,875	1119	434,229	1044	434,590	1027	434,967	1112	435,388	1132	435,780	1122	436,536	1104
433,876	937	434,234	1037	434,593	1025	434,970	1057	435,394	1056	435,782	1140	436,553	1167
433,899	998	434,235	1069	434,596	1008	434,991	1142	435,395	1140	435,796	1154	436,674	1155
433,902	989	434,240	1034	434,599	1042	434,993	1041	435,404	1130	435,797	1154	436,713	1166
433,910	975	434,243	1086	434,602	1132	434,994	1077	435,412	1131	435,798	1150	436,791	1166
433,911	987												

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1,923,143	119	1,941,101	60	1,941,557	187	1,942,173	106	1,942,937	106	1,943,348	155	1,944,046	200
1,923,455	120	1,941,146	241	1,941,562	106	1,942,260	106	1,942,943	123	1,943,497	187	1,944,048	187
1,926,903	420	1,941,172	61	1,941,569	100	1,942,261	106	1,943,115	108	1,943,519	194	1,944,158	187
1,933,574	748	1,941,202	66	1,941,606	106	1,942,274	127	1,943,123	108	1,943,525	189	1,944,164	181
1,939,635	686	1,941,203	66	1,941,608	107	1,942,350	107	1,943,307	157	1,943,532	189	1,944,167	193
1,940,678	66	1,941,230	69	1,941,609	106	1,942,364	108	1,943,331	156	1,943,583	215	1,944,178	192
1,940,688	59	1,941,231	60	1,941,610	106	1,942,411	108	1,943,332	156	1,943,584	189	1,944,179	192
1,940,689	61	1,941,251	89	1,941,623	100	1,942,469	107	1,943,333	156	1,943,595	193	1,944,183	192
1,940,842	61	1,941,256	107	1,941,648	100	1,942,485	100	1,943,334	156	1,943,601	193	1,944,227	193
1,940,860	61	1,941,257	107	1,941,671	105	1,942,507	100	1,943,335	156	1,943,650	208	1,944,281	187
1,940,861	56	1,941,371	118	1,941,672	105	1,942,522	107	1,943,336	156	1,943,738	193	1,944,327	270
1,940,899	74	1,941,376	108	1,941,702	100	1,942,523	98	1,943,337	156	1,943,758	193	1,944,415	187
1,940,912	66	1,941,437	111		108	1,942,636	90	1,943,338	150	1,943,764	193	1,944,423	187
1,940,922	66	1,941,438	107		107	1,942,667	108	1,943,339	156		187	1,944,444	
1,940,934	66	1,941,485	115	1,941,983	105	1,942,668	108	1,943,340	156		178	1,944,461	193
1,940,935	66	1,941,535	107	1,941,990	108	1,942,686	107	1,943,341	156	1,943,919	187	1,944,598	186
1,941,012	241	1,941,536	97	1,942,025	106	1,942,779	106	1,943,345	144	1,943,975	186	1,944,636	186
1,941,039	66	1,941,547	106	1,942,041	107	1,942,799	100	1,943,346	143	1,943,976	186	1,944,729	192
1,941,040	66	1,941,556	108	1,942,150	107	1,942,923	106	1,943,347	155	1,943,984	193	1,944,730	193



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1,944,738	187	1,947,888	10	1,949,811	134	1,951,160	306	1,952,855	583	1,953,936	505	1,954,708	183
1,944,743	193	1,947,890	10	1,949,819	134	1,951,167	97	1,952,877	96	1,953,937	140	1,954,707	183
1,944,788	423	1,947,938	273	1,949,831	70	1,951,205	181	1,952,886	110	1,953,938	404	1,954,729	144
1,944,820	189	1,947,948	414	1,949,832	70	1,951,206	181	1,952,898	90	1,953,946	183	1,954,745	638
1,944,825	193	1,947,971	270	1,949,849	316	1,951,207	181	1,952,907	505	1,953,948	6	1,954,750	115
1,944,848	187	1,948,004	270	1,949,866	180	1,951,208	181	1,952,909	494	1,953,950	111	1,954,751	145
1,944,856	188	1,948,007	315	1,949,905	314	1,951,241	68	1,952,911	494	1,953,951	111	1,954,768	124
1,944,859	185	1,948,029	315	1,949,914	323	1,951,250	121	1,952,913	506	1,953,980	96	1,954,778	25
1,944,873	235	1,948,058	9	1,949,916	315	1,951,280	138	1,952,970	556	1,953,983	101	1,954,796	2
1,944,874	234	1,948,121	314	1,949,919	300	1,951,304	314	1,952,977	528	1,953,984	101	1,954,798	115
1,944,880	252	1,948,185	302	1,949,921	315	1,951,324	215	1,952,988	556	1,953,997	606	1,954,835	161
1,944,881	252	1,949,131	315	1,949,925	320	1,951,326	414	1,953,022	97	1,954,000	506	1,954,836	161
1,944,898	228	1,948,143	299	1,949,927	308	1,951,328	429	1,953,039	90	1,954,003	505	1,954,843	135
1,944,941	217	1,948,145	274	1,949,928	308	1,951,341	452	1,953,040	170	1,954,026	110	1,954,865	216
1,945,074	227	1,948,162	314	1,949,929	362	1,951,342	452	1,953,043	89	1,954,055	23	1,954,866	214
1,945,102	234	1,948,194	277	1,949,948	93	1,951,449	461	1,953,058	3	1,954,058	23	1,954,867	136
1,945,142	236	1,948,243	314	1,949,949	93	1,951,511	109	1,953,061	9	1,954,065	204	1,954,878	627
1,945,163	227	1,948,244	314	1,949,956	106	1,951,526	112	1,953,070	140	1,954,089	2	1,954,879	691
1,945,260	235	1,948,245	314	1,949,989	181	1,951,555	455	1,953,076	97	1,954,091	214	1,954,880	591
1,945,267	220	1,948,246	314	1,950,017	134	1,951,563	124	1,953,082	30	1,954,096	213	1,954,887	136
1,945,283	235	1,948,267	11	1,950,066	82	1,951,564	163	1,953,083	185	1,954,103	136	1,954,889	805
1,945,341	234	1,948,296	10	1,950,067	93	1,951,577	93	1,953,085	18	1,954,109	125	1,954,900	638
1,945,342	234	1,948,308	275	1,950,070	93	1,951,593	92	1,953,104	115	1,954,116	10	1,954,939	210
1,945,365	227	1,948,313	292	1,950,085	128	1,951,595	526	1,953,111	111	1,954,117	24	1,954,959	130
1,945,366	227	1,948,316	314	1,950,100	124	1,951,618	113	1,953,160	163	1,954,144	5	1,954,991	214
1,945,371	212	1,948,338	10	1,950,108	305	1,951,620	97	1,953,180	503	1,954,163	505	1,954,993	216
1,945,411	30	1,948,407	270	1,950,116	314	1,951,633	401	1,953,191	184	1,954,171	518	1,955,014	213
1,945,534	226	1,948,408	270	1,950,132	125	1,951,664	174	1,953,201	494	1,954,172	503	1,955,015	2
1,945,551	239	1,948,448	314	1,950,180	308	1,951,708	92	1,953,216	30	1,954,189	30	1,955,016	403
1,945,611	236	1,948,464	282	1,950,197	315	1,951,720	508	1,953,228	507	1,954,211	590	1,955,021	160
1,945,614	217	1,948,471	8	1,950,258	197	1,951,725	90	1,953,229	507	1,954,219	114	1,955,023	214
1,945,615	217	1,948,472	8	1,950,272	135	1,951,737	174	1,953,231	140	1,954,226	90	1,955,052	200
1,945,623	236	1,948,515	87	1,950,279	97	1,951,739	89	1,953,232	140	1,954,236	4	1,955,057	143
1,945,676	298	1,948,517	17	1,950,287	93	1,951,740	138	1,953,237	4	1,954,279	590	1,955,064	48
1,945,679	273	1,948,520	270	1,950,309	135	1,951,741	517	1,953,244	11	1,954,288	3	1,955,065	48
1,945,737	236	1,948,568	19	1,950,315	336	1,951,747	138	1,953,263	175	1,954,291	110	1,955,075	163
1,945,838	226	1,948,687	274	1,950,320	305	1,951,769	180	1,953,279	3	1,954,296	504	1,955,080	183
1,945,884	274	1,948,695	313	1,950,333	134	1,951,774	452	1,953,286	90	1,954,297	504	1,955,092	143
1,946,052	511	1,948,696	313	1,950,348	93	1,951,780	90	1,953,309	141	1,954,312	144	1,955,112	649
1,946,053	511	1,948,697	313	1,950,351	97	1,951,782	138	1,953,312	213	1,954,328	110	1,955,114	648
1,946,054	511	1,948,730	269	1,950,352	316	1,951,790	180	1,953,332	122	1,954,333	185	1,955,158	4
1,946,055	511	1,948,732	10	1,950,359	93	1,951,792	90	1,953,333	214	1,954,334	208	1,955,163	23
1,946,057	513	1,948,736	10	1,950,360	68	1,951,819	452	1,953,336	89	1,954,335	126	1,955,211	620
1,946,068	269	1,948,777	12	1,950,366	95	1,951,845	96	1,953,345	214	1,954,336	110	1,955,260	261
1,946,069	274	1,948,781	505	1,950,387	362	1,951,853	97	1,953,346	214	1,954,337	125	1,955,261	2
1,946,089	269	1,948,817	13	1,950,388	362	1,951,870	174	1,953,353	90	1,954,346	126	1,955,264	135
1,946,090	267	1,948,858	17	1,950,389	302	1,951,881	507	1,953,364	505	1,954,353	805	1,955,272	21
1,946,121	274	1,948,908	269	1,950,417	195	1,951,886	452	1,953,372	2	1,954,356	2	1,955,290	261
1,946,124	277	1,949,051	314	1,950,418	77	1,951,911	461	1,953,397	97	1,954,366	5	1,955,296	2
1,946,130	273	1,949,089	275	1,950,451	197	1,951,933	125	1,953,398	184	1,954,371	4	1,955,328	620
1,946,141	266	1,949,090	315	1,950,452	197	1,951,945	461	1,953,405	30	1,954,377	187	1,955,348	159
1,946,146	275	1,949,093	13	1,950,453	197	1,951,976	461	1,953,413	174	1,954,378	24	1,955,355	161
1,946,148	274	1,949,111	286	1,950,459	305	1,951,984	452	1,953,419	517	1,954,390	23	1,955,376	144
1,946,150	274	1,949,112	315	1,950,460	180	1,951,992	452	1,953,431	505	1,954,394	29	1,955,413	3
1,946,151	274	1,949,135	321	1,950,468	112	1,952,012	109	1,953,445	504	1,954,400	637	1,955,416	182
1,946,152	274	1,949,142	14	1,950,478	196	1,952,017	123	1,953,472	3	1,954,401	632	1,955,417	182
1,946,153	274	1,949,147	15	1,950,483	115	1,952,020	180	1,953,478	214	1,954,405	610	1,955,451	23
1,946,195	218	1,949,204	306	1,950,516	111	1,952,048	461	1,953,480	4	1,954,406	610	1,955,522	136
1,946,331	274	1,949,205	362	1,950,537	314	1,952,049	461	1,953,484	506	1,954,407	637	1,955,527	263
1,946,338	267	1,949,211	13	1,950,558	213	1,952,060	112	1,953,490	139	1,954,410	639	1,955,564	639
1,946,489	403	1,949,243	14	1,950,612	314	1,952,082	461	1,953,500	2	1,954,415	620	1,955,580	28
1,946,546	274	1,949,244	13	1,950,620	213	1,952,083	461	1,953,508	110	1,954,429	205	1,955,596	261
1,946,609	274	1,949,249	18	1,950,641	195	1,952,090	461	1,953,526	430	1,954,431	135	1,955,607	136
1,946,828	9	1,949,267	13	1,950,662	195	1,952,116	139	1,953,548	138	1,954,432	136	1,955,608	30
1,946,870	273	1,949,311	316	1,950,689	315	1,952,122	138	1,953,567	122	1,954,433	139	1,955,620	144
1,946,709	270	1,949,344	13	1,950,697	181	1,952,125	139	1,953,583	112	1,954,438	182	1,955,678	145
1,946,739	9	1,949,360	306	1,950,720	92	1,952,137	98	1,953,607	174	1,954,441	98	1,955,722	591
1,946,766	273	1,949,366	13	1,950,721	215	1,952,166	175	1,953,612	90	1,954,450	110	1,955,731	195
1,946,863	209	1,949,369	13	1,950,735	215	1,952,255	454	1,953,618	138	1,954,451	110	1,955,738	161
1,946,873	273	1,949,375	46	1,950,739	215	1,952,256	454	1,953,625	507	1,954,462	642	1,955,742	200
1,946,876	273	1,949,398	315	1,950,746	111	1,952,289	452	1,953,647	603	1,954,463	505	1,955,766	180
1,946,879	271	1,949,425	92	1,950,786	180	1,952,313	110	1,953,653	329	1,954,468	183	1,955,780	590
1,946,936	273	1,949,434	69	1,950,818	79	1,952,367	112	1,953,672	3	1,954,473	638	1,955,804	175
1,946,964	275	1,949,462	306	1,950,820	195	1,952,412	112	1,953,694	121	1,954,474	639	1,955,825	144
1,947,002	19	1,949,466	336	1,950,829	306	1,952,417	114	1,953,702	140	1,954,482	183	1,955,820	260
1,947,006	270	1,949,479	271	1,950,875	92	1,952,482	216	1,953,724	3	1,954,484	182	1,955,834	5
1,947,024	19	1,949,485	328	1,950,878	295	1,952,572	626	1,953,733	3	1,954,486	136	1,955,849	3
1,947,114	274	1,949,549	96	1,950,879	306	1,952,575	4						

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1,956,030	130	1,957,208	241	1,958,370	287	1,959,286	83	1,960,212	303	1,961,348	334	1,962,299	410
1,956,045	185	1,957,301	354	1,958,372	277	1,959,280	342	1,960,220	320	1,961,351	351	1,962,301	385
1,956,054	054	1,957,303	84	1,958,373	277	1,959,290	343	1,960,225	201	1,961,358	295	1,962,307	925
1,956,088	182	1,957,314	294	1,958,374	277	1,959,297	730	1,960,232	362	1,961,365	352	1,962,310	625
1,956,111	672	1,957,324	202	1,958,376	223	1,959,301	123	1,960,239	321	1,961,377	323	1,962,327	351
1,956,132	4	1,957,334	280	1,958,381	344	1,959,305	724	1,960,245	281	1,961,388	333	1,962,338	351
1,956,171	23	1,957,335	286	1,958,387	102	1,959,313	724	1,960,256	354	1,961,405	352	1,962,339	362
1,956,176	074	1,957,336	280	1,958,407	092	1,959,315	217	1,960,295	358	1,961,424	308	1,962,345	351
1,956,179	060	1,957,337	286	1,958,416	343	1,959,316	217	1,960,298	338	1,961,425	008	1,962,368	397
1,956,230	702	1,957,358	205	1,958,418	278	1,959,317	217	1,960,320	356	1,961,464	439	1,962,371	381
1,956,260	040	1,957,364	294	1,958,439	206	1,959,320	281	1,960,330	840	1,961,467	338	1,962,418	440
1,956,266	2	1,957,368	223	1,958,440	343	1,959,321	281	1,960,340	178	1,961,468	008	1,962,424	400
1,956,274	175	1,957,369	223	1,958,448	107	1,959,322	281	1,960,348	833	1,961,470	334	1,962,430	432
1,956,284	260	1,957,370	223	1,958,448	82	1,959,323	281	1,960,368	833	1,961,493	294	1,962,435	343
1,956,286	135	1,957,385	704	1,958,450	89	1,959,324	281	1,960,373	255	1,961,509	363	1,962,444	371
1,956,290	173	1,957,415	62	1,958,462	109	1,959,343	207	1,960,413	327	1,961,510	337	1,962,460	370
1,956,321	10	1,957,425	203	1,958,469	262	1,959,344	234	1,960,445	557	1,961,525	357	1,962,478	386
1,956,327	20	1,957,429	692	1,958,470	278	1,959,345	210	1,960,455	178	1,961,545	350	1,962,485	440
1,956,343	161	1,957,433	264	1,958,479	242	1,959,346	210	1,960,520	851	1,961,551	580	1,962,490	002
1,956,362	173	1,957,434	279	1,958,483	303	1,959,362	210	1,960,526	857	1,961,560	809	1,962,495	002
1,956,412	20	1,957,443	287	1,958,528	216	1,959,363	320	1,960,538	357	1,961,576	809	1,962,496	002
1,956,420	176	1,957,449	215	1,958,547	84	1,959,374	237	1,960,551	260	1,961,579	368	1,962,498	000
1,956,426	173	1,957,458	67	1,958,554	85	1,959,375	309	1,960,581	295	1,961,588	321	1,962,502	343
1,956,427	173	1,957,459	219	1,958,575	106	1,959,376	314	1,960,593	858	1,961,590	800	1,962,515	440
1,956,441	143	1,957,461	287	1,958,577	84	1,959,377	289	1,960,571	366	1,961,618	363	1,962,525	440
1,956,442	161	1,957,465	694	1,958,581	106	1,959,380	316	1,960,572	356	1,961,621	363	1,962,542	387
1,956,463	176	1,957,468	343	1,958,582	85	1,959,389	290	1,960,573	356	1,961,622	347	1,962,552	380
1,956,495	5	1,957,469	343	1,958,583	88	1,959,393	857	1,960,591	880	1,961,623	348	1,962,555	415
1,956,496	4	1,957,474	223	1,958,584	88	1,959,399	857	1,960,600	206	1,961,625	809	1,962,571	000
1,956,515	3	1,957,482	108	1,958,585	88	1,959,400	265	1,960,613	354	1,961,626	908	1,962,577	003
1,956,525	135	1,957,484	219	1,958,586	85	1,959,400	303	1,960,615	177	1,961,630	348	1,962,598	607
1,956,530	321	1,957,486	67	1,958,600	287	1,959,408	320	1,960,616	177	1,961,652	007	1,962,599	807
1,956,543	309	1,957,513	080	1,958,614	278	1,959,414	300	1,960,617	294	1,961,658	363	1,962,601	402
1,956,544	082	1,957,528	073	1,958,615	102	1,959,415	316	1,960,624	295	1,961,678	358	1,962,617	002
1,956,551	194	1,957,547	220	1,958,624	206	1,959,433	321	1,960,625	178	1,961,681	380	1,962,622	346
1,956,559	278	1,957,553	50	1,958,630	216	1,959,437	858	1,960,626	304	1,961,686	381	1,962,637	008
1,956,667	216	1,957,555	287	1,958,649	082	1,959,440	210	1,960,627	295	1,961,687	381	1,962,642	387
1,956,670	219	1,957,579	101	1,958,671	90	1,959,448	840	1,960,631	393	1,961,714	694	1,962,643	385
1,956,671	218	1,957,648	214	1,958,683	278	1,959,466	235	1,960,679	294	1,961,736	347	1,962,646	387
1,956,673	216	1,957,649	214	1,958,691	342	1,959,467	200	1,960,698	008	1,961,737	347	1,962,683	402
1,956,585	073	1,957,688	278	1,958,697	252	1,959,480	849	1,960,700	008	1,961,738	347	1,962,686	890
1,956,591	67	1,957,750	51	1,958,700	288	1,959,500	857	1,960,707	178	1,961,740	323	1,962,698	345
1,956,592	89	1,957,764	073	1,958,702	83	1,959,504	321	1,960,708	177	1,961,750	911	1,962,702	907
1,956,597	294	1,957,766	073	1,958,707	278	1,959,576	322	1,960,711	900	1,961,752	907	1,962,733	911
1,956,603	216	1,957,786	278	1,958,708	278	1,959,580	303	1,960,712	900	1,961,768	337	1,962,751	007
1,956,607	102	1,957,788	278	1,958,710	227	1,959,590	694	1,960,713	900	1,961,774	883	1,962,763	371
1,956,620	285	1,957,794	215	1,958,714	278	1,959,650	357	1,960,720	908	1,961,777	907	1,962,764	400
1,956,716	217	1,957,810	214	1,958,715	278	1,959,658	853	1,960,740	008	1,961,811	338	1,962,774	353
1,956,718	219	1,957,840	215	1,958,726	83	1,959,668	858	1,960,794	394	1,961,825	911	1,962,778	386
1,956,728	704	1,957,849	072	1,958,732	83	1,959,678	307	1,960,808	882	1,961,834	890	1,962,792	344
1,956,741	094	1,957,857	239	1,958,744	201	1,959,680	211	1,960,812	297	1,961,840	375	1,962,803	386
1,956,770	286	1,957,861	239	1,958,745	280	1,959,712	260	1,960,828	294	1,961,862	338	1,962,806	423
1,956,779	294	1,957,868	239	1,958,760	672	1,959,714	290	1,960,832	906	1,961,863	338	1,962,808	371
1,956,780	215	1,957,878	239	1,958,770	204	1,959,718	320	1,960,840	177	1,961,866	381	1,962,821	007
1,956,784	205	1,957,900	255	1,958,803	83	1,959,747	849	1,960,865	189	1,961,890	338	1,962,827	351
1,956,785	205	1,957,912	223	1,958,820	252	1,959,748	840	1,960,880	357	1,961,893	892	1,962,828	351
1,956,793	102	1,957,913	223	1,958,821	205	1,959,749	849	1,960,885	393	1,961,899	908	1,962,829	351
1,956,811	049	1,957,918	238	1,958,837	101	1,959,758	857	1,960,896	403	1,961,902	900	1,962,850	414
1,956,833	51	1,957,920	219	1,958,840	343	1,959,764	858	1,960,895	907	1,961,908	370	1,962,861	388
1,956,894	101	1,957,935	224	1,958,860	267	1,959,765	349	1,960,898	906	1,961,913	363	1,962,887	899
1,956,895	101	1,957,936	219	1,958,878	84	1,959,772	857	1,960,899	906	1,961,914	352	1,962,895	415
1,956,905	101	1,957,937	224	1,958,879	85	1,959,775	200	1,960,907	926	1,961,916	352	1,962,900	368
1,956,908	092	1,957,938	224	1,958,898	202	1,959,780	308	1,960,912	900	1,961,920	383	1,962,911	388
1,956,913	285	1,957,939	202	1,958,909	83	1,959,824	216	1,960,917	393	1,961,927	334	1,962,919	349
1,956,926	072	1,957,940	082	1,958,918	342	1,959,850	210	1,960,972	295	1,961,931	320	1,962,920	407
1,956,930	072	1,957,941	51	1,958,924	280	1,959,883	290	1,960,980	177	1,961,945	351	1,962,931	407
1,956,950	266	1,957,973	730	1,958,928	280	1,959,884	290	1,960,994	319	1,961,948	351	1,962,940	415
1,956,961	241	1,958,012	99	1,958,929	280	1,959,913	858	1,961,065	809	1,961,958	338	1,962,960	349
1,956,965	202	1,958,020	50	1,958,939	83	1,959,917	210	1,961,073	899	1,961,960	380	1,962,970	347
1,956,972	202	1,958,034	672	1,958,967	682	1,959,945	210	1,961,096	907	1,961,982	430	1,962,972	394
1,956,993	100	1,958,035	658	1,958,975	252	1,959,947	334	1,961,097	907	1,961,983	430	1,962,974	347
1,957,006	100	1,958,102	692	1,959,021	322	1,959,958	287	1,961,104	919	1,962,085	353	1,962,984	370
1,957,013	214	1,958,110	241	1,959,026	073	1,959,965	206	1,961,108	304	1,962,091	907	1,962,985	908
1,957,020	242	1,958,118	84	1,959,030	85	1,959,968	309	1,961,117	608	1,962,103	295	1,962,990	348
1,957,053	252	1,958,123	50	1,959,054	201	1,959,973	849	1,961,120	611	1,962,109	375	1,962,995	914
1,957,129	073	1,958,136	223	1,959,061	83	1,959,999	857	1,961,122	899	1,962,123	334	1,962,998	347
1,957,130	073	1,958,140	223	1,959,073	731	1,960,012	210	1,961,127	899	1,962,124	334</		



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1,063,403	907	1,064,569	900	1,065,453	367	1,066,442	531	1,067,440	621	1,068,081	531	1,070,562	715
1,063,406	315	1,064,572	891	1,065,455	350	1,066,455	344	1,067,491	1053	1,068,099	546	1,070,564	706
1,063,471	381	1,064,592	386	1,065,483	370	1,066,456	531	1,067,569	627	1,068,124	543	1,070,572	735
1,063,489	340	1,064,593	386	1,065,490	380	1,066,460	420	1,067,601	532	1,068,156	531	1,070,597	579
1,063,493	900	1,064,594	386	1,065,508	409	1,066,474	400	1,067,617	622	1,068,183	599	1,070,603	735
1,063,497	367	1,064,639	485	1,065,509	420	1,066,475	400	1,067,628	1062	1,068,189	622	1,070,605	871
1,063,511	388	1,064,641	387	1,065,513	485	1,066,496	1051	1,067,667	618	1,068,201	617	1,070,649	738
1,063,516	440	1,064,680	906	1,065,535	991	1,066,613	420	1,067,669	538	1,068,218	550	1,070,656	749
1,063,517	314	1,064,682	367	1,065,539	994	1,066,553	537	1,067,685	467	1,068,235	656	1,070,687	715
1,063,525	907	1,064,683	367	1,065,555	1001	1,066,578	401	1,067,686	655	1,068,243	655	1,070,693	759
1,063,534	386	1,064,685	408	1,065,556	397	1,066,579	401	1,067,688	470	1,068,240	759	1,070,700	579
1,063,540	409	1,064,702	413	1,065,559	999	1,066,598	537	1,067,715	1051	1,068,269	622	1,070,704	736
1,063,550	415	1,064,704	386	1,065,576	380	1,066,604	467	1,067,716	1052	1,068,272	599	1,070,732	579
1,063,555	345	1,064,708	388	1,065,577	351	1,066,609	481	1,067,789	1052	1,068,275	643	1,070,771	769
1,063,556	345	1,064,719	991	1,065,595	434	1,066,624	344	1,067,809	418	1,068,302	616	1,070,782	716
1,063,566	367	1,064,720	395	1,065,604	1000	1,066,626	481	1,067,810	1051	1,068,308	616	1,070,783	579
1,063,569	902	1,064,724	351	1,065,605	993	1,066,634	1051	1,067,829	1092	1,068,316	616	1,070,784	579
1,063,581	384	1,064,725	368	1,065,608	466	1,066,644	443	1,067,830	1095	1,068,340	656	1,070,804	596
1,063,589	393	1,064,734	403	1,065,627	367	1,066,650	370	1,067,860	618	1,068,347	871	1,070,834	871
1,063,597	396	1,064,736	414	1,065,630	401	1,066,652	383	1,067,862	621	1,068,354	701	1,070,850	596
1,063,598	396	1,064,738	414	1,065,635	398	1,066,658	482	1,067,864	618	1,068,381	544	1,070,865	748
1,063,601	902	1,064,739	639	1,065,643	434	1,066,711	1098	1,067,865	644	1,068,382	654	1,070,870	871
1,063,604	909	1,064,740	386	1,065,646	456	1,066,720	1092	1,067,871	1074	1,068,421	624	1,070,902	760
1,063,610	387	1,064,743	407	1,065,657	1901	1,066,733	1072	1,067,872	1053	1,068,422	616	1,070,908	716
1,063,616	387	1,064,744	982	1,065,682	1000	1,066,763	1098	1,067,904	468	1,068,453	689	1,070,909	716
1,063,619	383	1,064,747	991	1,065,683	1000	1,066,779	343	1,067,913	479	1,068,454	668	1,070,912	737
1,063,622	383	1,064,754	604	1,065,684	1000	1,066,788	444	1,067,916	432	1,068,468	668	1,070,916	769
1,063,627	383	1,064,755	383	1,065,690	401	1,066,790	441	1,067,936	418	1,068,469	703	1,070,956	579
1,063,707	382	1,064,760	449	1,065,701	380	1,066,797	443	1,067,952	544	1,068,472	615	1,070,993	579
1,063,752	409	1,064,761	1001	1,065,710	479	1,066,801	537	1,067,955	418	1,068,473	599	1,070,996	583
1,063,811	439	1,064,771	370	1,065,731	383	1,066,806	383	1,067,959	548	1,068,477	642	1,071,029	751
1,063,818	899	1,064,772	351	1,065,750	999	1,066,817	516	1,067,975	536	1,068,478	558	1,071,030	751
1,063,820	388	1,064,775	388	1,065,760	999	1,066,820	1062	1,067,994	1098	1,068,479	702	1,071,031	704
1,063,841	388	1,064,791	352	1,065,764	1004	1,066,821	1102	1,068,004	479	1,068,481	575	1,071,102	579
1,063,844	415	1,064,792	396	1,065,766	992	1,066,832	1092	1,068,008	1092	1,068,482	642	1,071,163	579
1,063,846	385	1,064,793	352	1,065,770	343	1,066,833	1095	1,068,024	469	1,068,497	731	1,071,190	793
1,063,861	439	1,064,794	388	1,065,771	343	1,066,852	442	1,068,031	532	1,068,606	533	1,071,243	769
1,063,862	352	1,064,808	992	1,065,778	371	1,066,853	620	1,068,032	618	1,068,610	531	1,071,274	669
1,063,895	910	1,064,825	1024	1,065,815	369	1,066,859	482	1,068,033	715	1,068,626	533	1,071,277	596
1,063,896	914	1,064,848	368	1,065,818	443	1,066,881	434	1,068,038	537	1,068,627	533	1,071,317	596
1,063,901	892	1,064,853	414	1,065,821	344	1,066,886	597	1,068,053	537	1,068,636	739	1,071,318	715
1,063,900	371	1,064,858	385	1,065,828	345	1,066,915	363	1,068,114	576	1,068,650	568	1,071,329	713
1,063,917	346	1,064,867	379	1,065,832	454	1,066,927	429	1,068,136	570	1,068,655	530	1,071,355	579
1,063,921	900	1,064,902	991	1,065,842	444	1,066,938	482	1,068,154	621	1,068,659	564	1,071,358	578
1,063,934	347	1,064,906	1002	1,065,852	382	1,066,987	366	1,068,157	448	1,068,670	617	1,071,375	641
1,063,935	347	1,064,915	885	1,065,855	444	1,066,988	481	1,068,179	624	1,068,686	621	1,071,391	760
1,063,943	370	1,064,917	413	1,065,850	1000	1,066,991	450	1,068,208	617	1,068,689	669	1,071,406	607
1,063,955	423	1,064,940	379	1,065,924	462	1,067,013	537	1,068,223	448	1,068,694	617	1,071,443	596
1,063,959	415	1,064,948	1000	1,065,926	462	1,067,024	1062	1,068,243	466	1,068,701	642	1,071,476	685
1,063,965	380	1,064,953	1023	1,065,935	485	1,067,020	1092	1,068,244	466	1,068,709	642	1,071,492	579
1,063,966	396	1,064,955	435	1,065,949	999	1,067,031	1052	1,068,252	417	1,068,737	760	1,071,507	684
1,063,973	367	1,064,969	470	1,065,963	991	1,067,043	371	1,068,253	621	1,068,741	668	1,071,518	579
1,063,992	383	1,064,983	346	1,065,966	1022	1,067,062	548	1,068,275	537	1,068,761	736	1,071,522	740
1,063,997	396	1,064,985	346	1,065,968	351	1,067,070	481	1,068,300	621	1,068,766	531	1,071,618	580
1,063,998	396	1,064,987	409	1,065,970	485	1,067,095	558	1,068,311	537	1,068,772	712	1,071,633	735
1,063,999	396	1,064,992	387	1,065,970	485	1,067,099	346	1,068,318	544	1,068,793	543	1,071,650	578
1,064,000	396	1,064,999	396	1,065,967	443	1,067,121	478	1,068,330	558	1,068,801	749	1,071,678	714
1,064,001	396	1,065,010	388	1,065,968	443	1,067,147	481	1,068,345	448	1,068,818	794	1,071,683	711
1,064,006	808	1,065,012	999	1,065,969	450	1,067,172	345	1,068,356	448	1,068,828	749	1,071,710	711
1,064,009	923	1,065,016	999	1,065,972	395	1,067,173	345	1,068,362	441	1,068,856	669	1,071,717	711
1,064,011	923	1,065,037	999	1,065,980	450	1,067,174	345	1,068,367	441	1,068,890	737	1,071,721	711
1,064,017	624	1,065,042	367	1,065,990	383	1,067,176	380	1,068,418	448	1,068,904	727	1,071,728	757
1,064,039	402	1,065,059	415	1,065,994	368	1,067,189	442	1,068,459	418	1,068,922	799	1,071,729	767
1,064,073	485	1,065,088	387	1,065,111	984	1,067,196	528	1,068,466	447	1,068,963	516	1,071,746	738
1,064,077	383	1,065,093	399	1,065,114	991	1,067,197	384	1,068,491	450	1,068,979	530	1,071,760	733
1,064,087	394	1,065,100	393	1,065,130	435	1,067,206	401	1,068,493	532	1,068,980	543	1,071,753	713
1,064,088	409	1,065,105	344	1,065,157	395	1,067,220	619	1,068,512	532	1,068,983	532	1,071,760	733
1,064,136	382	1,065,135	343	1,065,166	395	1,067,225	620	1,068,526	416	1,068,984	716	1,071,779	758
1,064,158	899	1,065,139	370	1,065,168	638	1,067,225	620	1,068,552	621	1,068,998	749	1,071,786	758
1,064,160	908	1,065,142	365	1,065,173	537	1,067,232	467	1,068,552	621	1,069,008	533	1,071,792	590
1,064,161	899	1,065,172	387	1,065,187	1091	1,067,235	1062	1,068,601	532	1,069,065	668	1,071,796	608
1,064,169	440	1,065,186	386	1,065,203	350	1,067,236	531	1,068,628	416	1,069,122	546	1,071,798	583
1,064,191	350	1,065,187	415	1,065,211	462	1,067,244	618	1,068,704	477	1,069,156	554	1,071,804	578
1,064,204	908	1,065,190	999	1,065,219	1053	1,067,258	532	1,068,752	543	1,069,209	530	1,071,816	579
1,064,219	344	1,065,191	345	1,065,220	1053	1,067,263	1093	1,068,753	543	1,069,248	712	1,071,834	712
1,064,220	344	1,065,201	397	1,065,228	380	1,067,264	1093	1,068,764	531	1,069,270	687	1,071,871	970
1,064,249	992	1,065,209											

B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
761	1,973,865	736	1,975,399	727	1,973,905	869	1,978,536	805	1,979,943	802	1,981,415	882
739	1,973,888	750	1,975,410	731	1,973,908	938	1,978,537	810	1,979,953	787	1,981,425	975
749	1,973,895	713	1,975,424	731	1,976,021	878	1,978,580	894	1,979,954	787	1,981,428	975
641	1,973,897	702	1,975,425	731	1,976,022	878	1,978,598	915	1,979,955	832	1,981,455	911
758	1,973,901	713	1,975,426	731	1,976,023	878	1,978,621	983	1,979,961	811	1,981,480	883
678	1,973,906	855	1,975,427	731	1,976,024	878	1,978,691	805	1,979,964	788	1,981,498	910
578	1,973,907	631	1,975,433	711	1,976,040	877	1,978,710	914	1,979,971	804	1,981,510	940
678	1,973,909	615	1,975,456	839	1,976,055	765	1,978,728	736	1,979,976	793	1,981,522	1083
593	1,973,910	648	1,975,458	727	1,976,056	755	1,978,727	914	1,979,986	914	1,981,540	882
737	1,973,913	615	1,975,471	810	1,976,061	876	1,978,749	799	1,979,990	788	1,981,557	972
870	1,973,918	701	1,975,493	898	1,976,067	840	1,978,768	793	1,979,991	788	1,981,567	903
762	1,973,934	609	1,975,501	705	1,977,047	841	1,978,774	923	1,980,016	788	1,981,573	987
715	1,973,953	720	1,975,514	706	1,977,048	838	1,978,783	941	1,980,018	762	1,981,583	1022
716	1,973,964	737	1,975,539	706	1,977,054	838	1,978,784	925	1,980,021	804	1,981,588	987
716	1,973,961	794	1,975,542	799	1,977,055	838	1,978,791	811	1,980,043	900	1,981,614	983
579	1,973,999	784	1,975,556	819	1,977,084	878	1,978,793	813	1,980,071	936	1,981,625	902
679	1,974,000	784	1,975,576	725	1,977,089	838	1,978,794	813	1,980,083	974	1,981,626	983
759	1,974,028	748	1,975,582	713	1,977,101	936	1,978,796	962	1,980,097	892	1,981,631	910
757	1,974,058	631	1,975,583	706	1,977,107	847	1,978,797	962	1,980,102	962	1,981,643	944
758	1,974,064	737	1,975,588	840	1,977,148	838	1,978,800	910	1,980,115	982	1,981,754	911
721	1,974,065	611	1,975,590	847	1,977,165	773	1,978,801	788	1,980,118	936	1,981,758	983
783	1,974,069	761	1,975,610	819	1,977,168	853	1,978,802	786	1,980,119	945	1,981,792	930
761	1,974,089	712	1,975,631	706	1,977,174	787	1,978,803	962	1,980,129	941	1,981,799	984
751	1,974,103	721	1,975,672	827	1,977,178	840	1,978,836	944	1,980,189	937	1,981,811	1006
751	1,974,125	793	1,975,697	861	1,977,201	837	1,978,839	961	1,980,192	1033	1,981,818	883
792	1,974,167	713	1,975,727	839	1,977,210	840	1,978,840	839	1,980,200	937	1,981,819	881
736	1,974,170	713	1,975,731	924	1,977,211	862	1,978,848	962	1,980,201	937	1,981,822	1006
792	1,974,227	833	1,975,734	817	1,977,221	897	1,978,923	806	1,980,221	931	1,981,824	1005
609	1,974,223	645	1,975,750	816	1,977,228	864	1,978,948	915	1,980,244	928	1,981,840	882
629	1,974,231	656	1,975,755	838	1,977,238	753	1,978,982	944	1,980,257	1064	1,981,873	970
609	1,974,235	617	1,975,771	846	1,977,325	910	1,978,979	925	1,980,273	912	1,981,877	882
656	1,974,250	656	1,975,783	815	1,977,332	935	1,978,981	914	1,980,309	1091	1,981,878	911
712	1,974,261	738	1,975,803	924	1,977,345	904	1,979,012	915	1,980,338	912	1,981,907	946
784	1,974,273	720	1,975,839	837	1,977,359	765	1,979,046	982	1,980,344	851	1,981,986	1021
762	1,974,299	760	1,975,843	841	1,977,379	896	1,979,052	811	1,980,373	851	1,981,989	1027
704	1,974,301	759	1,975,853	840	1,977,404	864	1,979,083	786	1,980,377	937	1,982,002	987
609	1,974,420	721	1,975,884	816	1,977,412	848	1,979,108	788	1,980,384	940	1,982,010	988
791	1,974,498	616	1,975,890	841	1,977,416	923	1,979,121	946	1,980,385	940	1,982,024	987
713	1,974,506	782	1,975,937	955	1,977,428	722	1,979,126	813	1,980,396	903	1,982,026	882
713	1,974,526	702	1,975,962	782	1,977,445	855	1,979,168	788	1,980,413	943	1,982,028	973
777	1,974,542	734	1,975,980	817	1,977,479	765	1,979,169	788	1,980,431	834	1,982,029	1022
610	1,974,605	737	1,975,987	794	1,977,480	754	1,979,188	943	1,980,432	851	1,982,048	1004
748	1,974,624	725	1,975,998	1007	1,977,481	758	1,979,189	982	1,980,441	961	1,982,090	883
717	1,974,692	758	1,976,027	846	1,977,499	774	1,979,197	788	1,980,490	843	1,982,120	940
752	1,974,693	758	1,976,127	754	1,977,625	878	1,979,201	786	1,980,510	851	1,982,129	1005
736	1,974,701	610	1,976,132	769	1,977,530	897	1,979,216	804	1,980,521	858	1,982,130	987
642	1,974,724	712	1,976,133	769	1,977,561	924	1,979,248	1091	1,980,522	834	1,982,180	940
793	1,974,742	730	1,976,177	793	1,977,562	909	1,979,257	1065	1,980,543	940	1,982,186	1003
759	1,974,744	775	1,976,191	815	1,977,631	892	1,979,260	959	1,980,555	937	1,982,226	883
733	1,974,745	775	1,976,212	794	1,977,664	1089	1,979,267	903	1,980,589	833	1,982,231	1005
738	1,974,751	1041	1,976,218	848	1,977,680	944	1,979,283	896	1,980,649	937	1,982,246	928
720	1,974,755	720	1,976,224	810	1,977,684	982	1,979,303	936	1,980,676	989	1,982,267	984
751	1,974,768	611	1,976,243	936	1,977,688	911	1,979,312	810	1,980,711	930	1,982,268	1003
751	1,974,777	760	1,976,246	827	1,977,698	805	1,979,327	894	1,980,718	833	1,982,277	984
793	1,974,778	760	1,976,297	846	1,977,717	983	1,979,341	896	1,980,729	858	1,982,280	1005
761	1,974,799	775	1,976,299	831	1,977,728	944	1,979,347	891	1,980,747	846	1,982,328	883
727	1,974,801	736	1,976,301	831	1,977,748	950	1,979,351	894	1,980,791	834	1,982,477	902
759	1,974,805	713	1,976,354	906	1,977,750	894	1,979,385	924	1,980,827	982	1,982,478	902
713	1,974,808	748	1,976,359	830	1,977,768	840	1,979,393	786	1,980,828	1033	1,982,479	919
750	1,974,810	762	1,976,361	1065	1,977,771	786	1,979,399	898	1,980,873	858	1,982,480	919
735	1,974,821	761	1,976,363	816	1,977,807	786	1,979,403	897	1,980,875	858	1,982,486	1005
735	1,974,846	762	1,976,376	814	1,977,818	788	1,979,421	925	1,980,889	853	1,982,523	1082
737	1,974,847	827	1,976,388	787	1,977,820	903	1,979,448	983	1,980,898	864	1,982,536	938
610	1,974,854	734	1,976,392	883	1,977,868	806	1,979,449	939	1,980,941	975	1,982,539	910
760	1,974,861	739	1,976,394	817	1,977,876	915	1,979,450	939	1,980,954	851	1,982,541	903
812	1,974,937	745	1,976,408	787	1,977,879	944	1,979,451	788	1,980,966	974	1,982,542	896
761	1,974,978	610	1,976,433	816	1,977,923	803	1,979,460	896	1,980,971	972	1,982,577	983
611	1,975,063	639	1,976,435	917	1,977,955	787	1,979,500	787	1,980,972	974	1,982,586	1009
632	1,975,069	851	1,976,436	917	1,977,968	804	1,979,515	938	1,980,986	880	1,982,595	973
812	1,975,072	848	1,976,438	753	1,978,000	786	1,979,518	938	1,980,987	1005	1,982,598	882
735	1,975,087	810	1,976,468	840	1,978,010	892	1,979,518	939	1,980,988	987	1,982,618	984
782	1,975,090	839	1,976,469	794	1,978,022	962	1,979,519	939	1,980,996	939	1,982,661	1132
782	1,975,091	839	1,976,507	838	1,978,070	914	1,979,534	895	1,981,003	1082	1,982,676	1057
713	1,975,092	839	1,976,535	793	1,978,079	924	1,979,558	891	1,981,015	939	1,982,681	1134
721	1,975,109	752	1,976,544	838	1,978,081	786	1,979,559	940	1,981,043	903	1,982,707	1153
782	1,975,131	833	1,976,547	787	1,978,125	806	1,979,565	892	1,981,081	939	1,982,708	1056
735	1,975,132	769	1,976,557	773	1,978,135	915	1,979,586	959	1,981,129	882	1,982,712	949
610	1,975,153	898	1,976,572	815	1,978,139	982	1,979,610	804	1,981,132	987	1,982,778	1056
811	1,975,161	799	1,976,590	915	1,978,141	914	1,979,647	832	1,981,141	987	1,982,787	1057
761	1,975,167	841	1,976,602	837	1,978,165	911	1,979,671	961	1,981,161	948	1,982,788	1153
759	1,975,171	895	1,976,629	883	1,978,171	923	1,979,672	961	1,981,168	1066	1,982,794	1057
712	1,975,179	815	1,976,668	924	1,978,191	786	1,979,676	936	1,981,172	883	1,982,795	1057
631	1,975,186	831	1,976,696	838	1,978,254	787	1,979,677	936	1,981,176	987	1,982,796	1057
631	1,975,211	814	1,976,704	936	1,978,297	924	1,979,678	895	1			

## LIST OF UNITED STATES PATENTS ABSTRACTED.

Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.
940	1,984,164	1072	1,985,400	1113	1,986,257	1126	1,987,105	1137	1,988,178	1150				1119	
930	1,984,174	1110	1,985,401	1027	1,986,260	1027	1,987,212	1140	1,988,188	1076				1035	
1083	1,984,178	093	1,985,406	1160	1,986,261	1089	1,987,213	1139	1,988,225	1131				1095	
1131	1,984,182	1152	1,985,500	1041	1,986,300	1026	1,987,214	1139	1,988,242	1097				1075	
1126	1,984,204	1113	1,985,526	1025	1,986,301	1026	1,987,227	1130	1,988,262	1077				1119	
1041	1,984,205	1113	1,985,548	1127	1,986,303	1051	1,987,228	1132	1,988,299	1128				1098	
958	1,984,214	094	1,985,572	1045	1,986,332	1072	1,987,242	1073	1,988,300	1128				1097	
1060	1,984,210	078	1,985,597	1159	1,986,333	1033	1,987,243	1097	1,988,351	1075				1073	
1138	1,984,246	1155	1,985,601	1085	1,986,384	1043	1,987,244	1116	1,988,363	1139				1073	
1126	1,984,247	1155	1,985,602	1132	1,986,341	1090	1,987,267	1077	1,988,371	1075				1073	
1064	1,984,254	1046	1,985,609	1089	1,986,345	1088	1,987,278	1083	1,988,374	1105				1097	
1050	1,984,284	1137	1,985,613	1123	1,986,348	1027	1,987,282	1075	1,988,416	1089				1075	
929	1,984,285	1137	1,985,621	1138	1,986,349	1091	1,987,295	1167	1,988,420	1074				1082	
950	1,984,303	1138	1,985,622	1110	1,986,353	1052	1,987,301	1075	1,988,438	1104				1078	
1138	1,984,304	1137	1,985,675	1155	1,986,366	1089	1,987,309	1128	1,988,468	1076				1074	
1138	1,984,325	1138	1,985,692	1127	1,986,367	1090	1,987,317	1131	1,988,478	1076				1074	
1085	1,984,334	1085	1,985,698	1089	1,986,423	1131	1,987,321	1150	1,988,493	1155				1035	
1086	1,984,339	1075	1,985,717	1127	1,986,431	1026	1,987,360	1074	1,988,484	1155				1076	
1163	1,984,368	1153	1,985,720	1127	1,986,463	1105	1,987,397	1083	1,988,523	1098				1100	
1001	1,984,380	1025	1,985,738	1072	1,986,530	1026	1,987,449	1137	1,988,524	1092				1075	
1001	1,984,381	1026	1,985,801	1026	1,986,565	1083	1,987,530	1077	1,988,528	1099				1101	
1089	1,984,386	1051	1,985,846	1067	1,986,570	1026	1,987,549	1153	1,988,541	1076				1076	
1085	1,984,404	1119	1,985,854	1072	1,986,571	1102	1,987,570	1152	1,988,556	1077				1098	
993	1,984,415	1130	1,985,855	1053	1,986,573	1026	1,987,586	1076	1,988,561	1075				1035	
982	1,984,416	1107	1,985,860	1033	1,986,593	1126	1,987,601	1129	1,988,597	1075				1077	
1150	1,984,423	1153	1,985,868	1045	1,986,645	1128	1,987,614	1134	1,988,612	1075				1077	
1153	1,984,432	1127	1,985,870	1154	1,986,651	1128	1,987,615	1077	1,988,677	1073				1074	
1127	1,984,511	1165	1,985,871	1127	1,986,720	1044	1,987,630	1076	1,988,678	1073				1077	
1127	1,984,510	1128	1,985,875	1130	1,986,736	1027	1,987,640	1075	1,988,680	1166				1074	
1128	1,984,580	1070	1,985,885	1130	1,986,737	1025	1,987,669	1133	1,988,704	1076				1100	
1154	1,984,596	1125	1,985,886	1131	1,986,760	1089	1,987,672	1137	1,988,759	1073				1094	
1155	1,984,725	1085	1,985,894	1103	1,986,775	1127	1,987,683	1095	1,988,763	1077				1097	
1155	1,984,727	1051	1,985,896	1152	1,986,783	1116	1,987,685	1165	1,988,787	1095				1139	
1155	1,984,731	1025	1,985,902	1043	1,986,787	1152	1,987,694	1103	1,988,842	1035				1121	
977	1,984,750	1044	1,985,905	1045	1,986,798	1134	1,987,724	1074	1,989,003	1097				1035	
978	1,984,794	1137	1,985,947	1026	1,986,815	1150	1,987,750	1133	1,989,004	1077				1121	
1002	1,984,858	1150	1,985,949	1165	1,986,854	1153	1,987,861	1095	1,989,014	1166				1148	
1089	1,984,884	1085	1,985,955	1128	1,986,866	1166	1,987,870	1076	1,989,033	1076				1147	
1089	1,984,890	1051	1,985,968	1119	1,986,897	1082	1,987,884	1075	1,989,050	1077				1121	
1138	1,984,903	1034	1,985,969	1102	1,986,913	1077	1,987,888	1120	1,989,126	1075				1121	
977	1,984,982	1132	1,985,977	1166	1,986,920	1100	1,987,930	1139	1,989,175	1092				1142	
1090	1,984,983	1153	1,985,987	1102	1,986,930	1152	1,987,942	1137	1,989,206	1077				1128	
1085	1,985,076	1026	1,985,994	1045	1,986,936	1150	1,987,944	1075	1,989,255	1073				1122	
1089	1,985,098	1026	1,986,029	1103	1,986,945	1138	1,987,980	1103	1,989,300	1075				1144	
1068	1,985,200	1154	1,986,040	1103	1,986,954	1139	1,988,004	1076	1,989,374	1083				1121	
1153	1,985,201	1154	1,986,050	1155	1,986,959	1074	1,988,012	1090	1,989,376	1100				1121	
1060	1,985,217	1165	1,986,051	1155	1,986,961	1139	1,988,019	1083	1,989,380	1077				1121	
994	1,985,232	1085	1,986,103	1026	1,986,963	1074	1,988,031	1166	1,989,406	1073				1144	
1152	1,985,230	1156	1,986,104	1026	1,986,970	1139	1,988,050	1166	1,989,586	1074				1121	
1070	1,985,255	1130	1,986,111	1165	1,987,045	1139	1,988,083	1083	1,989,589	1168				1144	
1069	1,985,261	1105	1,986,165	1026	1,987,077	1140	1,988,084	1083	1,989,615	1074				1148	
1137	1,985,264	1153	1,986,168	1027	1,987,095	1138	1,988,090	1139	1,989,627	1084				1144	
993	1,985,304	1033	1,986,194	1037	1,987,119	1073	1,988,114	1126	1,989,641	1097				1149	
1152	1,985,368	1153	1,986,196	1025	1,987,121	1130	1,988,125	1103	1,989,668	1075				1155	
1137	1,985,439	1155	1,986,197	1051	1,987,148	1133	1,988,126	1139	1,989,692	1073				1122	
1137	1,985,453	1153	1,986,198	1033	1,987,168	1165	1,988,176	1130	1,989,712	1097				1122	
1153	1,985,457	1084	1,986,228	1126	1,987,192	1074	1,988,177	1159	1,989,728	1076				1106	
993															

# ERRATA.

## ABSTRACTS A., 1927 (PURE CHEMISTRY).

Page.	Col.	Line.	
945	2	22*	For "palladium magnet" read "palladised asbestos."
1932.			
517	1	17*	For "Dehydration" read "Dehydrogenation."
1933.			
69	2	9*	For "Dehydration" read "Dehydrogenation."
292	2	12	For "acetaldehyde" read "acetic anhydride."
1001	1	7*	For "bromomalates" read "boromalates."
1261	2	5	For "<" read ">."
1934.			
177	1	16*	For "6-chloro-3-hydroxybenzimidazole" read "5-chloro-1-hydroxy-1:2:3-benzotriazole."
530	1	13*	For "203—104°" read "203—204°."
1935.			
18	1	26	For "P. O. BROCKWAY" read "L. O. BROCKWAY."
35	1	3*	For "APPLEBY" read "APPLEBEY."
61	1	18	For "apatito-nepheline" read "apatite-nepheline."
106	2	18	For "H. BECKER" read "M. BECKER."
106	1	10	For "HEINRICH" read "HENRICH."
166	2	17*	For "PEDERSON" read "PEDERSEN."
205	2	1	For "rubene" read "rubrene."
223	2	35	For "109°" read "89.5—90°."
223	2	36	For "85.5—90°" read "109°."
229	2	14*	For "tyronine" read "tyrosine."
256	2	25—32	The abstract should be replaced by that appearing on p. 510 of this volume.
274	1	30	For "J. A. BETHE" read "H. A. BETHE."
326	1	4*	For "MEUNSEN" read "MEUWSEN."
335	2	17	For "rubene" read "rubrene."
355	2	8	For "autopyrrole" read "auropyrrole."
368	1	2	For "H. GOTO" read "K. GOTO."
398	1	3	For "FUGIMOTO" read "FUJIMOTO."
414	1	18	For "dihydroandrosterone" read "dehydroandrosterone."
418	1	15*, 14*	For "F. E. ASKEW" read "F. A. ASKEW."
420	2	9	For "KLASOW" read "KLASON."
437	2	14*	For "MeBr" read "EtBr."
441	1	12	For "NIEUWENBERG" read "NIEUWENBURG."
477	2	7	For "Penicillium Charles II" read "Penicillium Charlesii."
491	2	26	For "I. H. MEAD" read "T. H. MEAD."
512	2	4	For "O. L. HELMER" read "O. M. HELMER."
530	2	8	After "C. COLOMBI" add "U. SACCHI."
552	2	20	For "COMBETS" read "COMBES."
570	2	8*	For "WIEGLE" read "WEIGLE."
571	2	24, 25	For "guanidinium" read "guanidonium."
596	2	10*	For "WIENER" read "WEINER."
615	1	4*	For "SEIGO" read "SEIJO."
622	2	6, 7	For "methylidene" read "methylene."
627	1	29	For "ERDTMANN" read "ERDTMAN."
627	1	11	For "SEIGO" read "SEIJO."
641	2	2*	For "BOUDOUIN" read "BAUDOUIN."
651	2	13*	For "SHAEFFER" read "SCHAEFFER."
656	2	10, 19	For "MONCEOT" read "MOUGEOT."
657	2	28—30	The abstract should read "show antirachitic activity; but Ca Mg inositol phosphate is inactive in doses containing 6 times the equiv. of P."
663	1	26*	For "parathyphoid" read "paratyphoid."
666	1	22*	For "CASTAGNON" read "CASTAGNOU."
710	1	25	For "unimol." read "bimol."
710	1	26	For "bimol." read "unimol."
734	2	12*	For "WOLFRAM" read "WOLFROM."
750	2	24*	For "m.p. 83°, reduced" read "m.p. 83° (I) is reduced."
750	2	22*	For "and" read "which."
750	2	21*	For "acids, which" read "acids. This."
777	1	20*	For "ELLIOT" read "ELLIOTT."
807	1	21	For "JEFFERSON" read "JEPPESEN."
814	2	8*	For "SCHACHENMESER" read "SCHACHENMEIER."

\* From bottom.

Page.	Col.	Line.	
864	1	13	For "ASUMI" read "AZUMI."
875	1	10	For "- $\beta$ -piperonylamine" read "- $\beta$ -piperonyl ethylamine."
875	1	31	For "decomp. 275°" read "decomp. 265°."
875	1	5*	The "oxime" is that of 6-bromopiperonylpyruvic acid.
880	2	18	For "TREULES" read "TRELLES."
886	1	13	For "RONDINI" read "RONDONI."
910	2	22*	For "PONTECOEVO" read "PONTECORVO."
956	2	19 and 21	For "fosterite" read "forsterite."
1020	1	4*	For "RAMSON" read "LAMSON."
1042	2	13	For "nigreconus" read "nigrescens," and for "McSH" read "Me <sub>2</sub> S."
1042	2	14	Add "The Br <sub>2</sub> -additive compound of Me <sub>2</sub> S has m.p. 93–94°."
1090	1	30*	For "KRAUSKOFF" read "KRAUSKOPF."
1102	2	23	For "NIEUWENBERG" read "NIEUWENBURG."
1141	1	4	For "BOLLINGER" read "BOLLIGER."
1187	1	17*	For "BARTHOLMÉ" read "BARTHOLOMÉ."
1187	1	17*	For "H. CLUSIUS" read "K. CLUSIUS."
1190	1	12	For "(NO) <sub>2</sub> SO <sub>4</sub> " read "NO·HSO <sub>4</sub> ."
1234	1	28	For "220–245°" read "120–145°."
1234	1	35	After "oreinol" insert "Me, ether."
1237	1	21	For "BEHAGEL" read "BEHAGHEL."
1238	1	4*	For "300°" read "360°."
1239	1	15	For "H. HACHIMAMA" read "Y. HACHIMAMA."
1244	2	11*	For "CHOUDHURY" read "CHOWDHURY."
1247	1	20	For "110°" read "151°."
1247	1	30, 31	The words "and sulphido" should follow "(thianthren)."
1251	1	24	For "WRIGHT" read "WIGHT."
1253	1	14*	For "GHEORGIU" read "GHEORGHIU."
1255	2	13*	For "lasciocarpum" read "lasiocarpum."
1304	1	2	For "HAUSER" read "HAUSSER."
1282	1	27	For "PETERSEN" read "PETERSON."
1314	2	18	For "SEEMAN" read "SEEMANN."
1316	2	4	For "VIELS" read "VICK."
1362	2	20	For "BRUCKNER" read "BRÜCKNER."
1445	1	23	For "CARELLI" read "CARRELLI."
1449	1	7*	For "PFOFF" read "PFAFF."
1482	2	15	For "STEIGER" read "STEGER."
1487	2	17*	For "H. S. BACKER" read "H. J. BACKER."
1504	2	15	For "SCHÖMBERG" read "SCHÖNBERG."
1528	1	10	For "LEHR" read "LELU."
1528	1	9	For "GASTRO-GALHARDO" read "CASTRO-GALHARDO."

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Page.	Col.	Line.	
12	1	12	For "BELTISTOVA" read "VELTISTOVA."
38	2	5*	For "HARTZELL" read "HARTZEL."
81	2	24	For "H. V. BRISCOE" read "H. V. A. BRISCOE."
100	1	29	For "METZGER" read "METZGER."
137	2	25*	For "BERKENGEIM" read "BERKENHEIM."
173	2	25	For "HITCHINS" read "HITCHENS."
192	2	14*	For "HORNERBERG" read "HOMERBERG."
229	2	28	For "NOTOKI" read "MOTOKI."
242	2	18*	For "Emilie" read "Emilia."
250	1	11*	For "LINGREN" read "LINDGREN."
256	1	5*	For "BAYLISS" read "BAYLIS."
326	2	11	For "DAVIES" read "DAVIS."
328	2	1*	For "V. MORGENSTEIN" read "VON MORGENSTERN."
330	2	26*	For "GEOFFREY" read "GEOFFROY."
359	1	29	For "KRANZ" read "KRANTZ."
444	1	3rd abstract	In each case (except the benziminazole) "2" should be "1"; also in lines 8 and 10 of the abstract, "4" should be "5."
425	1	1	For "BOTHELO" read "BOTELHO."
455	2	2	For "GOUNERMAN" read "GONNERMAN."
466	2	4*	For "OAKSHOTT" read "OAKESHOTT."
562	1	17	For "CROSS" read "GROSS."
572	1	28*	For "V. MORGENSTERN" read "VON MORGENSTERN."
633	2	3	For "BENNETT" read "BENNEK."
723	2	3	For "SCHATENSCHTEIN" read "SCHATTENSTEIN."
723	1	14*	For "MACINTYRE" read "MACINTIRE."
741	2	14	For "MACINTYRE" read "MACINTIRE."
744	2	7	For "BOTECHO" read "BOTELHO."
801	2	23	For "PATRIDGE" read "PARTRIDGE."
828	1	3	For "M. BOLOTNIKOV" read "S. M. BOLOTNIKOV."
842	1	last line	For "1:1'" read "2:2'," and similarly on lines 3, 7, 8, 10, 16, 18, et seq. on col. 2.
842	2	6–7	Should read "2:2'-dimethyl-3:4:3':4'-benzbenzthiacyanine."
842	2	10	For "1:5:1':5'" read "3:4:3':4'"
843	1	1, 3, and 4	For "1:1'" read "2:2'"; lines 21, 28, 33, and 37, for "2-" read "1-."

\* From bottom.

Page.	Col.	Line.	
922	1	20	<i>For "BOMER" read "BÖMER."</i>
969	1	11*	<i>For "COOLNAAS" read "COOLHAAS."</i>
976	2	24	<i>For "CLARKE" read "CLARK."</i>
1012	2	18*	<i>For "LEISERT" read "ZEISERT."</i>
1024	2	12	<i>For "O. CALLAWAY" read "N. O. CALLOWAY."</i>
1037	1	4*	<i>For "NHPhMe" read "<math>C_6H_4Me \cdot NH_2</math>."</i>
1042	1	7*	<i>For "glycerin" read "glycine."</i>

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Page.	Col.	Line.	
164	1	38*	<i>For "bromomalates" read "boromalates."</i>

## ABSTRACTS INDEX, 1935.

Page.	Col.	Line.	
166	2	33	Entry under "Hornerberg" should be on p. 165, col. 1, l. 3* under "Homerberg."
271	1	24	<i>For "Hornerberg" read "Homerberg."</i>

\* From bottom.

